Chapter II—EMPLOYMENT AND PAY ROLLS

TABLE 1.—NUMBER OF EMPLOYEES BY FUNCTIONAL CLASS AND SEX: PAY ROLL PERIOD ENDED NEAREST OCTOBER 15, 1947, AND EARLIER CENSUS YEARS

[This table presents detailed figures for all full-time and part-time employees who worked or received pay for any part of the pay period ended nearest Oct. 15, 1947 including all persons on paid sick leave, paid holidays, and paid vacations during this pay period. For 1939, the figures represent the normal pay roll period ended nearest Oct. 14, 1939, and for 1929 they represent employment as of Dec. 14 or the nearest representative date. For 1919 and 1909, the date was Dec. 15, and for 1899 an average was used. For 1899 to 1919, inclusive, the figures for production and related workers represent the average for the year. See GENERAL EXPLANATIONS, Manufacturing employees—classifications used]

CLASS OF EMPLOYEE AND SEX	1947 [1]	1939 [2]	1929 [2]	1919 [2]	1909 [2]	1899 [2]
All employees [3]	[4] 14,228,345	10,414,764	9,661,629	9,836,811	6,850,929	4,688,918
Male	[5] 10,393,127	7,770,814	7,455,142	7,647,431	5,424,804	n.a.
Female	[6] 3,835,218	2,643,950	2,206,487	2,189,380	1,426,125	n.a.
Production and related workers	11,839,081	8,678,408	8,371,592	8,464,916	6,100,599	[7] 4,340,820
Male	8,744,276	6,442,822	6,524,521	6,648,534	4,815,467	3,425,506
Female	3,094,805	2,235,586	1,847,071	1,816,382	1,285,132	915,314
Force-account construction workers	39,753	70,887	n.a.	n.a.	n.a.	n.a.
Administrative, supervisory, sales, technical, office, and all other personnel	2,349,511	1,665,469	1,290,037	1,371,895	750,330	348,098
Male	1,609,192	1,257,105	930,621	998,897	609,337	n.a.
Female	740,319	408,364	359,416	372,998	140,993	n.a.

n.a.—Not available.

[1] Figures for 1947 include all establishments employing one or more persons at any time during the year; for 1929 and 1939, those having products valued at $5,000 or more; and for 1899-1919, those having products valued at $500 or more.

[2] The figures for 1899 to 1939 inclusive have not been revised to exclude data for employees attached to establishments classified as manufacturing in 1939 and earlier years, but classified as nonmanufacturing in 1947. The figures for 1899 to 1929 inclusive, however, have been adjusted to exclude data for the following industries excluded from the scope of the census after 1929: "Railroad repair shops" (both steam and electric), "Manufactured gas," "Coffee and spice roasting and grinding," "Peanuts and walnuts, processed or shelled," "Motion pictures," "Grindstones, pulpstones, and millstones," "Flax and hemp, dressed," and "Automobile repairing" (canvassed only in 1914 and 1919). See GENERAL EXPLANATIONS—Statistics for 1939 and earlier years.

[3] The questionnaire for 1947 and 1939 called for the total number of employees on the pay rolls of manufacturing establishments, including those engaged in distribution and construction work. It is not known to what extent data for such employees are included in the figures shown for earlier years.

[4] The figures for 1947 do not include data for establishments with an average total employment of 333,400 for 1947, which were not required to report employment by functional class and sex for the pay roll period ended nearest Oct. 15, 1947.

[5] Includes 39,659 male force-construction workers.

[6] Includes 94 female force-account construction workers.

[7] Does not include 161,042 children under 16 years of age.

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TABLE 2.—NUMBER OF EMPLOYEES BY FUNCTIONAL CLASS AND SEX, FOR INDUSTRY GROUPS AND FOR INDUSTRIES: PAY ROLL PERIOD ENDED NEAREST OCTOBER 15, 1947

[For explanation of column captions see GENERAL EXPLANATIONS. All establishments except those reporting on short forms were requested to report the number of employees by functional class and by sex for the pay roll period ended nearest October 15, 1947. The first two columns of the table provide a measure of the importance of the establishments which supplied this information]

No.	Industry and industry group: Title	Average for the year: All employees: All establishments	Average for the year: All employees: Establishments reporting detailed employment figures	Pay roll period ended nearest October 15, 1947: All employees: Total	All employees: Male[1]	All employees: Female[1]	Production and related workers: Total	Production and related workers: Male	Production and related workers: Female	Force-account construction workers	Administrative, supervisory, sales, technical, office, and all other personnel: Total	Administrative: Male	Administrative: Female
	All industries, total	14,294,304	13,960,904	14,228,345	10,393,127	3,835,218	11,839,081	8,744,276	3,094,805	39,753	2,349,511	1,609,192	740,319
	INDUSTRY GROUPS												
20	Food and kindred products	1,441,847	1,403,737	1,498,967	1,096,441	402,526	1,145,214	819,731	325,483	4,002	349,751	272,727	77,024
21	Tobacco manufactures	111,782	111,238	124,894	50,399	74,495	115,967	43,482	72,485	407	8,520	6,513	2,007
22	Textile mill products	1,233,431	1,229,865	1,244,936	695,033	549,903	1,157,553	638,890	518,663	2,037	85,346	54,107	31,239
23	Apparel and related products	1,081,844	1,045,221	1,121,494	310,694	810,800	1,009,343	248,886	760,457	463	111,688	61,349	50,339
24	Lumber and products, except furniture	635,708	554,343	565,618	529,456	36,162	524,788	498,980	25,808	2,197	38,633	28,284	10,349
25	Furniture and fixtures	322,384	310,548	323,627	269,382	54,245	283,370	243,170	40,200	371	39,886	25,845	14,041
26	Paper and allied products	449,833	449,833	453,332	338,216	115,116	391,036	295,563	95,473	3,514	58,782	39,144	19,638
27	Printing and publishing industries	715,450	655,525	668,621	467,949	200,672	405,461	316,576	88,885	245	262,915	151,130	111,785
28	Chemicals and allied products	632,319	626,490	634,774	514,648	120,126	466,596	395,260	71,336	9,451	158,727	109,937	48,790
29	Petroleum and coal products	212,003	212,003	216,176	206,769	9,407	172,526	170,346	2,180	4,447	39,203	31,976	7,227
30	Rubber products	259,092	258,260	254,815	188,657	66,158	211,072	159,417	51,655	685	43,058	28,561	14,497
31	Leather and leather products	383,175	377,386	396,613	213,704	182,909	361,267	193,451	167,816	122	35,224	20,131	15,093
32	Stone, clay, and glass products	462,072	454,474	461,898	381,187	80,711	404,337	338,953	65,384	3,080	54,481	39,164	15,317
33	Primary metal industries	1,157,124	1,152,901	1,148,303	1,089,338	58,965	1,000,116	973,175	26,941	4,903	143,284	111,260	32,024
34	Fabricated metal products	971,461	947,040	957,134	778,537	178,597	806,517	674,997	131,520	1,285	149,332	102,257	47,075
35	Machinery (except electrical)	1,545,323	1,524,616	1,521,996	1,321,369	200,627	1,219,588	1,113,233	106,355	1,053	301,355	207,086	94,269
36	Electrical machinery	801,359	798,915	798,909	487,870	311,039	636,321	380,779	255,542	395	162,193	106,696	55,497
37	Transportation equipment	1,181,680	1,177,578	1,142,230	1,027,854	114,376	952,279	886,049	66,230	162	189,789	141,643	48,146
38	Instruments and related products	231,997	228,821	225,999	144,633	81,366	175,751	112,278	63,473	808	49,440	31,574	17,866
39	Miscellaneous manufactures	464,420	442,110	468,099	280,991	187,018	399,979	241,060	158,919	126	67,904	39,808	28,096
	INDUSTRIES												
20	**Food and kindred products**	1,441,847	1,403,737	1,498,967	1,096,441	402,526	1,145,214	819,731	325,483	4,002	349,751	272,727	77,024
201	Meat products	274,441	270,143	279,898	216,311	63,587	224,132	173,208	50,924	539	55,227	42,564	12,663
2011	Meat packing, wholesale	208,309	204,825	208,563	171,876	36,687	165,743	138,680	27,063	454	42,366	32,742	9,624
2013	Prepared meats	44,379	43,625	45,087	30,579	15,008	35,372	22,615	12,757	73	10,242	7,991	2,251
2015	Poultry dressing, wholesale	21,693	21,693	25,648	13,756	11,892	23,017	11,913	11,104	12	2,619	1,831	788
202	Dairy products	92,693	89,493	87,478	69,236	18,242	63,357	52,174	11,183	317	23,804	16,757	7,047
2021	Creamery butter	20,564	20,096	19,936	15,239	4,697	14,400	11,783	2,617	111	5,425	3,350	2,075
2022	Natural cheese	12,320	11,582	11,275	9,809	1,466	9,418	8,535	883	71	1,786	1,204	582
2023	Concentrated milk	16,635	16,635	16,089	14,354	1,735	13,374	12,500	874	50	2,665	1,805	860
2024	Ice cream and ices	35,807	33,813	32,958	24,686	8,272	20,219	15,092	5,127	85	12,654	9,514	3,140
2025	Special dairy products	7,367	7,367	7,220	5,148	2,072	5,946	4,264	1,682	----------	1,274	884	390
203	Canning, preserving, and freezing	201,627	198,910	232,333	123,141	109,192	211,421	109,046	102,375	699	20,213	13,396	6,817
2031	Canned sea food	20,153	20,153	27,559	12,182	15,377	26,399	11,436	14,963	46	1,114	700	414
2032	Cured fish	2,431	2,431	2,754	1,449	1,305	2,466	1,248	1,218	----------	288	201	87
2033	Canning and preserving, except fish	135,974	134,091	154,356	84,197	70,159	140,159	74,622	65,537	540	13,657	9,035	4,622
2034	Dehydrated fruits and vegetables	3,976	3,976	6,033	2,918	3,115	5,699	2,710	2,989	29	305	179	126
2035	Pickles and sauces	21,730	20,896	25,475	14,241	11,234	22,211	11,976	10,235	19	3,245	2,246	999
2037	Frozen foods	17,363	17,363	16,156	8,154	8,002	14,487	7,054	7,433	65	1,604	1,035	569
204	Grain-mill products	113,217	110,373	114,752	100,743	14,009	86,809	79,413	7,396	737	27,206	20,595	6,611
2041	Flour and meal	39,458	38,508	39,651	36,316	3,335	30,700	29,350	1,350	229	8,722	6,737	1,985
2042	Prepared animal feeds	55,347	53,453	54,124	49,405	4,719	38,658	37,463	1,195	493	14,973	11,451	3,522
2043	Cereal preparations	11,276	11,276	11,466	7,429	4,037	9,631	6,304	3,327	3	1,832	1,122	710
2044	Rice cleaning and polishing	4,072	4,072	6,191	5,458	733	5,337	4,737	600	12	842	709	133
2045	Blended and prepared flour	3,064	3,064	3,320	2,135	1,185	2,483	1,559	924	----------	837	576	261
205	Bakery products	279,368	270,181	276,723	203,063	73,660	183,674	128,412	55,262	171	92,878	74,480	18,398
2051	Bread and other bakery products	233,310	224,123	227,207	179,227	47,980	142,917	111,386	31,531	148	84,142	67,693	16,449
2052	Biscuit, crackers, and pretzels	46,058	46,058	49,516	23,836	25,680	40,757	17,026	23,731	23	8,736	6,787	1,949
206	Sugar	35,423	35,423	52,015	47,219	4,796	46,895	43,309	3,586	488	4,632	3,422	1,210
2061	Raw cane sugar	4,635	4,635	5,839	5,565	274	5,137	4,995	142	164	538	406	132
2062	Cane-sugar refining	17,376	17,376	17,723	15,074	2,649	15,568	13,457	2,111	148	2,007	1,469	538
2063	Beet sugar	13,412	13,412	28,453	26,580	1,873	26,190	24,857	1,333	176	2,087	1,547	540
207	Confectionery and related products	91,710	89,372	102,368	42,780	59,588	88,233	35,211	53,022	117	14,018	7,452	6,566
2071	Confectionery products	75,165	72,827	83,656	31,654	52,002	73,033	26,251	46,782	108	10,515	5,295	5,220
2072	Chocolate and cocoa products	9,605	9,605	10,367	7,185	3,182	8,431	5,972	2,459	----------	1,936	1,213	723
2073	Chewing gum	6,940	6,940	8,345	3,941	4,404	6,769	2,988	3,781	9	1,567	944	623
208	Beverages	202,574	196,407	210,243	186,012	24,231	140,994	126,072	14,922	629	68,620	59,316	9,304
2081	Bottled soft drinks	79,397	73,907	80,234	73,727	6,507	37,610	35,111	2,499	113	42,511	38,504	4,007
2082	Malt liquors	82,534	82,534	86,445	83,014	3,431	66,875	66,510	365	133	19,437	16,371	3,066
2083	Malt	2,524	2,524	2,562	2,424	138	2,117	2,100	17	6	439	318	121
2084	Wines and brandy	7,697	7,273	8,093	6,222	1,871	6,227	4,892	1,335	57	1,809	1,273	536
2085	Distilled liquors, except brandy	30,422	30,169	32,909	20,625	12,284	28,165	17,459	10,706	320	4,424	2,850	1,574
209	Miscellaneous food preparations	150,794	143,435	143,157	107,936	35,221	99,699	72,886	26,813	305	43,153	34,745	8,408
2091	Leavening compounds	3,066	3,066	2,943	2,290	653	2,250	1,798	452	17	676	475	201
2092	Shortening and cooking oils	8,003	8,003	8,055	6,771	1,284	5,948	5,152	796	43	2,064	1,576	488
2093	Oleomargarine	2,567	2,567	2,737	1,996	741	1,953	1,436	517	----------	784	560	224
2094	Corn products	12,324	12,324	12,260	11,367	893	10,063	9,560	503	37	2,160	1,770	390
2095	Flavorings	11,726	11,194	11,715	8,268	3,447	7,128	5,245	1,883	4	4,583	3,019	1,564
2096	Vinegar and cider	987	987	1,369	1,191	178	1,211	1,089	122	----------	158	102	56
2097	Manufactured ice	46,462	42,145	42,566	41,153	1,413	24,973	24,893	80	147	17,446	16,113	1,333
2098	Macaroni and spaghetti	8,043	8,043	8,444	4,766	3,678	6,984	3,677	3,307	1	1,459	1,088	371
2099	Liquid, frozen, and dried eggs	9,800	9,800	6,680	3,363	3,317	5,710	2,721	2,989	2	968	640	328
	Food preparations, n.e.c.	47,816	45,306	46,388	26,771	19,617	33,479	17,315	16,164	54	12,855	9,402	3,453

See footnotes at end of table.

TABLE 2.—NUMBER OF EMPLOYEES BY FUNCTIONAL CLASS AND SEX, FOR INDUSTRY GROUPS AND FOR INDUSTRIES: PAY ROLL PERIOD ENDED NEAREST OCTOBER 15, 1947—Continued

No.	Industry and industry group: Title	Average for the year: All employees: All establishments	Average for the year: All employees: Establishments reporting detailed employment figures	Pay roll period ended nearest October 15, 1947: All employees: Total	All employees: Male[1]	All employees: Female[1]	Production and related workers: Total	Production and related workers: Male	Production and related workers: Female	Force-account construction workers	Administrative, supervisory, sales, technical, office, and all other personnel: Total	Administrative, supervisory, sales, technical, office, and all other personnel: Male	Administrative, supervisory, sales, technical, office, and all other personnel: Female
21	**Tobacco manufactures**	111,782	111,238	124,894	50,399	74,495	115,967	43,482	72,485	407	8,520	6,513	2,007
2111	Cigarettes	27,674	27,674	27,911	15,510	12,401	25,494	13,027	11,867	335	2,082	1,548	534
2121	Cigars	47,068	46,524	48,645	10,103	38,542	46,126	8,427	37,699	----------	2,519	1,676	843
2131	Chewing and smoking tobacco	11,139	11,139	11,480	6,731	4,749	10,105	5,643	4,462	44	1,331	1,044	287
2141	Tobacco stemming and redrying	25,901	25,901	36,858	18,055	18,803	34,242	15,785	18,457	28	2,588	2,245	343
22	**Textile mill products**	1,233,431	1,229,865	1,244,936	695,033	549,903	1,157,553	638,890	518,663	2,037	85,346	54,107	31,239
221	Woolen and worsted manufactures	180,054	179,912	181,590	104,453	77,137	168,562	95,778	72,784	254	12,774	8,422	4,352
2211	Scouring and combing plants	8,726	8,726	8,784	7,280	1,504	7,963	6,724	1,239	----------	821	566	265
2212	Yarn mills, wool, except carpet	33,178	33,036	33,573	12,634	20,939	31,864	11,553	20,311	21	1,688	1,060	628
2213	Woolen and worsted fabrics	132,348	132,348	133,293	80,525	52,768	123,416	73,938	49,478	233	9,644	6,355	3,289
2216	Finishing wool textiles	5,802	5,802	5,940	4,014	1,926	5,319	3,563	1,756	----------	621	451	170
222	Yarn and thread mills, except wool	123,599	123,599	121,906	62,860	59,046	115,766	58,819	56,947	249	5,891	3,792	2,099
2222	Yarn throwing mills	14,866	14,866	14,660	5,312	9,348	13,611	4,718	8,893	----------	1,049	594	455
2223	Thread mills	14,652	14,652	13,675	6,328	7,347	12,145	5,389	6,756	47	1,483	892	591
2224	Yarn mills, cotton system	92,280	92,280	91,862	50,504	41,358	88,474	48,114	40,360	202	3,186	2,188	998
2225	Yarn mills, silk system	1,801	1,801	1,709	716	993	1,536	598	938	----------	173	118	55
223	Cotton and rayon broad-woven fabrics	455,009	455,009	456,122	272,734	183,388	434,130	257,684	176,446	1,132	20,860	13,918	6,942
2233	Cotton broad-woven fabrics	357,361	357,361	356,620	214,735	141,885	341,182	203,958	137,224	960	14,478	9,817	4,661
2234	Rayon and related broad-woven fabrics	97,648	97,648	99,502	57,999	41,503	92,948	53,726	39,222	172	6,382	4,101	2,281
2241	Narrow fabric mills	27,662	27,364	27,397	12,055	15,342	24,686	10,550	14,136	10	2,701	1,495	1,206
225	Knitting mills	230,527	228,169	237,876	82,771	155,105	220,065	72,676	147,389	237	17,574	9,858	7,716
2251	Full-fashioned hosiery mills	70,034	69,571	70,660	31,507	39,153	65,831	28,592	37,239	35	4,794	2,880	1,914
2252	Seamless hosiery mills	64,808	64,100	65,807	19,312	46,495	62,296	17,369	44,927	43	3,468	1,900	1,568
2253	Knit outerwear mills	34,760	33,573	37,704	10,702	27,002	33,450	8,348	25,102	----------	4,254	2,354	1,900
2254	Knit underwear mills	40,579	40,579	42,636	10,580	32,056	39,477	9,072	30,405	45	3,114	1,463	1,651
2255	Knit glove mills	5,212	5,212	5,458	1,092	4,366	5,197	957	4,240	----------	261	135	126
2256	Knit-fabric mills	14,158	14,158	14,450	9,098	5,352	12,761	7,925	4,836	114	1,575	1,059	516
2259	Knitting mills, n.e.c.	976	976	1,161	480	681	1,053	413	640	----------	108	67	41
2261	Finishing textiles, except wool	77,985	77,217	78,823	63,398	15,425	69,754	57,594	12,160	92	8,977	5,712	3,265
227	Carpets and rugs	57,211	57,211	61,222	42,113	19,109	54,598	37,641	16,957	----------	6,624	4,472	2,152
2271	Wool carpets, rugs, and carpet yarn	40,096	40,096	41,894	28,359	13,535	37,148	25,148	12,000	----------	4,746	3,211	1,535
2273	Carpets and rugs, n.e.c.	7,055	7,055	8,272	3,333	4,939	7,611	2,954	4,657	----------	661	379	282
2274	Hard-surface floor coverings	10,060	10,060	11,056	10,421	635	9,839	9,539	300	----------	1,217	882	335
228	Hats (except cloth and millinery)	21,428	21,428	21,263	13,933	7,330	18,605	12,257	6,348	----------	2,658	1,676	982
2281	Fur-felt hats and hat bodies	13,034	13,034	13,296	9,137	4,159	11,666	8,171	3,495	----------	1,630	966	664
2282	Wool-felt hats and hat bodies	4,467	4,467	4,548	2,807	1,741	4,036	2,461	1,575	----------	512	346	166
2283	Straw hats	2,438	2,438	1,892	1,015	877	1,528	754	774	----------	364	261	103
2284	Hatters' fur	1,489	1,489	1,527	974	553	1,375	871	504	----------	152	103	49
229	Miscellaneous textile goods	59,956	59,956	58,737	40,716	18,021	51,387	35,891	15,496	63	7,287	4,762	2,525
2291	Felt goods, n.e.c.	4,737	4,737	4,618	4,193	425	4,041	3,806	235	----------	577	387	190
2292	Lace goods	8,580	8,580	8,972	4,480	4,492	8,221	4,018	4,203	----------	751	462	289
2293	Paddings and upholstery filling	8,243	8,243	8,218	6,760	1,458	7,338	6,152	1,186	----------	880	608	272
2294	Processed textile waste	5,805	5,805	5,575	4,094	1,481	4,913	3,630	1,283	----------	662	464	198
2295	Coated fabrics, except rubberized	8,698	8,698	8,697	7,551	1,146	6,845	6,310	535	38	1,814	1,203	611
2297	Jute (except felt), and linen goods	5,290	5,290	4,853	2,913	1,940	4,396	2,602	1,794	----------	457	311	146
2298	Cordage and twine	15,950	15,950	15,539	9,295	6,244	13,730	8,177	5,562	25	1,775	1,093	682
2299	Textile goods, n.e.c.	2,653	2,653	2,265	1,430	835	1,894	1,196	698	----------	371	234	137
23	**Apparel and related products**	1,081,844	1,045,221	1,121,494	310,694	810,800	1,009,343	248,886	760,457	463	111,688	61,349	50,339
231	Men's and boys' suits and coats	150,369	148,272	153,632	64,097	89,535	139,120	55,404	83,716	79	14,433	8,614	5,819
2311	Men's and boys' suits and coats	146,768	144,671	149,830	62,759	87,071	135,657	54,259	81,398	79	14,094	8,421	5,673
2312	Suit and coat findings	3,601	3,601	3,802	1,338	2,464	3,463	1,145	2,318	----------	339	193	146
232	Men's and boys' furnishings	253,436	248,723	258,310	50,294	208,016	239,116	39,615	199,501	165	19,029	10,514	8,515
2321	Men's dress shirts and nightwear	94,308	92,501	96,331	14,182	82,149	90,124	10,871	79,253	51	6,156	3,260	2,896
2322	Men's and boys' underwear	7,269	7,269	7,306	950	6,356	6,943	779	6,164	----------	363	171	192
2323	Men's and boys' neckwear	10,744	10,744	11,417	3,205	8,212	9,880	2,248	7,632	----------	1,537	957	580
2325	Men's and boys' cloth hats and caps	5,541	5,541	5,840	2,579	3,261	5,365	2,315	3,050	----------	475	264	211
2326	Hat and cap materials	1,111	1,111	1,110	536	574	931	443	488	----------	179	93	86
2327	Separate trousers	48,300	47,210	48,228	13,264	34,964	44,773	11,239	33,534	53	3,402	1,972	1,430
2328	Work shirts	12,061	12,061	12,343	1,539	10,804	11,445	1,058	10,387	15	883	466	417
2329	Men's and boys' clothing, n.e.c.	74,102	72,286	75,735	14,039	61,696	69,655	10,662	58,993	46	6,034	3,331	2,703
233	Women's and misses' outerwear	313,402	299,921	326,648	87,501	239,147	291,017	68,451	222,566	100	35,531	18,950	16,581
2331	Blouses and waists	32,757	30,373	34,456	4,841	29,615	31,501	3,153	28,348	----------	2,955	1,688	1,267
2333	Dresses, unit price	133,294	128,089	137,679	33,003	104,676	122,071	24,943	97,128	40	15,568	8,020	7,548
2334	Dresses, dozen price	48,692	47,557	48,946	6,287	42,659	44,027	4,135	39,892	9	4,910	2,143	2,767
2335	Women's suits and coats	74,306	71,662	80,961	37,664	43,297	71,704	32,122	39,582	40	9,217	5,502	3,715
2336	Women's skirts	8,312	7,844	9,029	2,805	6,224	8,079	2,211	5,868	7	943	587	356
2338	Women's neckwear and scarfs	2,754	2,754	3,336	718	2,618	2,702	362	2,340	----------	634	356	278
2339	Women's outerwear, n.e.c.	13,287	11,642	12,241	2,183	10,058	10,933	1,525	9,408	4	1,304	654	650
234	Women's and children's undergarments	94,558	92,658	100,561	14,877	85,684	89,300	9,453	79,847	35	11,226	5,389	5,837
2341	Women's and children's underwear	57,306	55,889	61,288	8,215	53,073	55,677	5,360	50,317	35	5,576	2,820	2,756
2342	Corsets and allied garments	37,252	36,769	39,273	6,662	32,611	33,623	4,093	29,530	----------	5,650	2,569	3,081
2351	Millinery	20,893	19,807	21,519	7,516	14,003	18,681	6,167	12,514	2	2,836	1,347	1,489

See footnotes at end of table.

TABLE 2.—NUMBER OF EMPLOYEES BY FUNCTIONAL CLASS AND SEX, FOR INDUSTRY GROUPS AND FOR INDUSTRIES: PAY ROLL PERIOD ENDED NEAREST OCTOBER 15, 1947—Continued

No.	Industry and industry group	Average for the year: All employees: All establishments	Average for the year: All employees: Establishments reporting detailed employment figures	Pay roll period ended nearest October 15, 1947: All employees: Total	All employees: Male [1]	All employees: Female [1]	Production and related workers: Total	Production and related workers: Male	Production and related workers: Female	Force-account construction workers	Administrative, supervisory, sales, technical, office, and all other personnel: Total	Administrative, supervisory, sales, technical, office, and all other personnel: Male	Administrative, supervisory, sales, technical, office, and all other personnel: Female
23	Apparel and related products—Continued												
236	Children's outerwear	48,136	46,117	51,654	10,763	40,891	46,749	8,103	38,646	3	4,902	2,659	2,243
2361	Children's dresses	22,435	21,606	23,368	3,192	20,176	21,246	2,113	19,133	----------	2,122	1,079	1,043
2363	Children's coats	12,427	12,427	14,960	5,156	9,804	13,410	4,205	9,205	2	1,548	951	597
2369	Children's outerwear, n.e.c.	13,274	12,084	13,326	2,415	10,911	12,093	1,785	10,308	1	1,232	629	603
2371	Fur goods	16,190	15,105	17,908	13,612	4,296	15,298	11,971	3,327	2	2,608	1,641	967
238	Miscellaneous apparel and accessories	57,229	57,229	64,298	16,463	47,835	57,585	12,670	44,915	----------	6,713	3,793	2,920
2381	Fabric and combination dress gloves	5,136	5,136	5,189	658	4,531	4,819	458	4,361	----------	370	200	170
2382	Fabric and combination work gloves	10,981	10,981	11,261	2,167	9,094	10,704	1,868	8,836	----------	557	299	258
2383	Suspenders and garters	1,685	1,685	1,870	426	1,444	1,596	276	1,320	----------	274	150	124
2384	Robes and dressing gowns	10,884	10,884	13,459	2,845	10,614	12,284	2,248	10,036	----------	1,175	597	578
2385	Waterproof outer garments	8,283	8,283	9,441	2,672	6,769	8,428	2,102	6,326	----------	1,013	570	443
2386	Leather and sheep-lined clothing	4,336	4,335	5,507	1,888	3,619	4,918	1,546	3,372	----------	589	342	247
2387	Belts	9,162	9,162	10,394	4,342	6,052	8,627	3,225	5,402	----------	1,767	1,117	650
2388	Handkerchiefs	4,583	4,583	4,944	778	4,166	4,416	485	3,931	----------	528	293	235
2389	Apparel, n.e.c.	2,180	2,180	2,233	687	1,546	1,793	462	1,331	----------	440	225	215
239	Miscellaneous fabricated textiles	127,631	117,389	126,964	45,571	81,393	112,477	37,052	75,425	77	14,410	8,442	5,968
2391	Curtains and draperies	7,982	7,325	8,180	1,633	6,547	7,090	1,012	6,078	----------	1,090	621	469
2392	Housefurnishings, n.e.c.	40,220	38,330	42,305	16,116	26,189	38,519	13,945	24,574	32	3,754	2,139	1,615
2393	Textile bags	13,884	13,884	14,130	5,236	8,894	12,335	4,091	8,244	3	1,792	1,142	650
2394	Canvas products	10,569	8,732	8,220	4,786	3,434	6,306	3,624	2,682	18	1,896	1,144	752
2395	Tucking, pleating, and hemstitching	5,929	4,477	4,774	1,463	3,311	4,442	1,232	3,210	----------	332	231	101
2396	Trimmings and art goods	15,007	13,594	15,021	5,358	9,663	13,093	4,205	8,888	24	1,904	1,129	775
2397	Schiffli-machine embroideries	5,678	5,678	6,117	1,990	4,127	5,525	1,594	3,931	----------	592	396	196
2398	Embroideries, except Schiffli-machine	9,836	7,602	9,387	1,809	7,578	8,918	1,533	7,385	----------	469	276	193
2399	Fabricated textile products, n.e.c.	18,526	17,767	18,830	7,180	11,650	16,249	5,816	10,433	----------	2,581	1,364	1,217
24	**Lumber and products, except furniture**	**635,708**	**554,343**	**565,618**	**529,456**	**36,162**	**524,788**	**498,980**	**25,808**	**2,197**	**38,633**	**28,284**	**10,349**
242	Lumber and timber basic products	406,815	334,908	344,272	335,575	8,697	324,937	320,970	3,967	1,723	17,612	12,884	4,728
2421	Sawmills and planing mills, general [2]	382,902	310,995	322,871	316,122	6,749	304,846	302,558	2,288	1,680	16,345	11,886	4,457
2422	Veneer mills	10,461	10,461	10,566	9,032	1,534	9,799	8,432	1,367	28	739	572	168
2424	Cooperage stock mills	12,291	12,291	9,633	9,363	270	9,170	8,978	192	15	448	370	79
2425	Excelsior mills	1,161	1,161	1,202	1,058	144	1,122	1,002	120	----------	80	56	24
243	Millwork and related products	94,275	89,746	92,967	86,209	6,758	81,787	77,633	4,154	268	10,912	8,310	2,602
2431	Millwork plants	57,599	53,235	55,623	52,070	3,553	48,220	46,349	1,871	157	7,246	5,566	1,680
2432	Plywood plants	26,499	26,499	26,847	24,187	2,660	24,846	22,678	2,168	76	1,925	1,433	492
2433	Prefabricated wood products	10,177	10,012	10,497	9,952	545	8,721	8,606	115	35	1,741	1,311	430
244	Wooden containers	69,104	67,643	66,802	55,693	11,109	62,459	52,489	9,970	99	4,244	3,105	1,139
2441	Fruit and vegetable baskets	9,105	9,105	8,786	5,874	2,912	8,463	5,637	2,826	----------	323	237	86
2442	Rattan and willow ware, n.e.c.	1,073	1,073	1,190	829	361	1,097	781	316	----------	93	48	45
2443	Cigar boxes	1,875	1,875	1,838	851	987	1,702	760	942	----------	136	91	45
2444	Wooden boxes (except cigar boxes)	47,828	46,367	46,567	40,036	6,531	43,373	37,636	5,737	99	3,095	2,301	794
2445	Cooperage	9,223	9,223	8,421	8,103	318	7,824	7,675	149	----------	597	428	169
249	Miscellaneous wood products	65,514	62,046	61,577	51,979	9,598	55,605	47,888	7,717	107	5,865	3,985	1,880
2491	Wood preserving	16,247	16,247	15,677	15,326	351	14,180	14,149	31	15	1,482	1,162	320
2492	Lasts and related products	1,959	1,959	1,935	1,677	258	1,669	1,522	147	----------	266	155	111
2493	Mirror and picture frames	3,811	3,434	3,691	2,567	1,124	3,182	2,254	928	----------	509	313	196
2499	Wood products, n.e.c.	43,497	40,406	40,274	32,409	7,865	36,574	29,963	6,611	92	3,608	2,355	1,253
25	**Furniture and fixtures**	**322,384**	**310,548**	**323,627**	**269,382**	**54,245**	**283,370**	**243,170**	**40,200**	**371**	**39,886**	**25,845**	**14,041**
251	Household furniture	228,946	220,503	230,726	192,265	38,461	205,438	176,029	29,409	307	24,981	15,931	9,050
2511	Wood house furniture, except upholstered	132,709	127,949	132,324	113,331	18,993	120,396	105,363	15,033	190	11,738	7,780	3,958
2512	Household furniture, upholstered	44,755	42,952	46,391	38,183	8,208	41,240	34,853	6,387	96	5,055	3,234	1,821
2513	Reed and rattan furniture	771	771	732	559	173	652	508	144	----------	80	51	29
2514	Metal house furniture, except upholstered	19,485	18,927	18,633	15,320	3,313	15,774	13,459	2,315	18	2,841	1,843	998
2515	Mattresses and bedsprings	30,344	29,022	31,753	24,239	7,514	26,592	21,286	5,306	3	5,158	2,950	2,208
2519	Household furniture, n.e.c.	882	882	893	633	260	784	560	224	----------	109	73	36
252	Office furniture	21,292	21,292	21,674	19,129	2,545	18,309	17,092	1,217	----------	3,365	2,037	1,328
2521	Wood office furniture	6,601	6,601	6,643	5,986	657	5,936	5,525	411	----------	707	461	246
2522	Metal office furniture	14,691	14,691	15,031	13,143	1,888	12,373	11,567	806	----------	2,658	1,576	1,082
253	Public and professional furniture	14,410	14,410	14,605	12,358	2,247	12,045	10,668	1,377	13	2,547	1,678	869
2531	Public-building furniture	8,855	8,855	8,908	7,424	1,484	7,440	6,458	982	10	1,458	957	501
2532	Professional furniture	5,555	5,555	5,697	4,934	763	4,605	4,210	395	3	1,089	721	368
2541	Partitions and fixtures	27,678	25,391	26,167	24,389	1,778	22,295	21,469	826	51	3,821	2,870	951
256	Screens, shades, and blinds	25,973	24,867	26,298	17,504	8,794	21,697	14,592	7,105	----------	4,601	2,912	1,689
2561	Window and door screens	9,510	9,510	10,213	8,402	1,811	8,436	7,137	1,299	----------	1,777	1,265	512
2562	Window shades	6,760	6,760	7,055	4,122	2,933	5,742	3,355	2,387	----------	1,313	767	546
2563	Venetian blinds	9,703	8,597	9,030	4,980	4,050	7,519	4,100	3,419	----------	1,511	880	631
259	Miscellaneous furniture and fixtures	4,085	4,085	4,157	3,737	420	3,586	3,320	266	----------	571	417	154
2591	Restaurant furniture	3,370	3,370	3,422	3,102	320	2,911	2,722	189	----------	511	380	131
2599	Furniture and fixtures, n.e.c.	715	715	735	635	100	675	598	77	----------	60	37	23

See footnotes at end of table.

TABLE 2.—NUMBER OF EMPLOYEES BY FUNCTIONAL CLASS AND SEX, FOR INDUSTRY GROUPS AND FOR INDUSTRIES: PAY ROLL PERIOD ENDED NEAREST OCTOBER 15, 1947—Continued

No.	Industry and industry group	Average for the year: All employees: All establishments	Average for the year: All employees: Establishments reporting detailed employment figures	Pay roll period ended nearest October 15, 1947: All employees: Total	All employees: Male [1]	All employees: Female [1]	Production and related workers: Total	Production and related workers: Male	Production and related workers: Female	Force-account construction workers	Administrative, supervisory, sales, technical, office, and all other personnel: Total	Administrative: Male	Administrative: Female
26	**Paper and allied products**	449,833	449,833	453,332	338,216	115,116	391,036	295,563	95,473	3,514	58,782	39,144	19,638
261	Pulp, paper, and paperboard	198,370	198,370	201,486	186,936	14,550	176,345	167,523	8,822	3,382	21,759	16,036	5,723
2611	Pulp mills	50,290	50,290	51,348	50,196	1,152	46,070	45,724	346	1,292	3,986	3,181	805
2612	Paper and board mills	148,080	148,080	150,138	136,740	13,398	130,275	121,799	8,476	2,090	17,773	12,855	4,918
2641	Paper coating and glazing	18,133	18,133	18,032	14,238	3,794	15,118	12,320	2,798	2	2,912	1,916	996
2651	Envelopes	13,797	13,797	13,948	6,669	7,279	11,634	5,311	6,323	----------	2,314	1,358	956
2661	Paper bags	22,265	22,265	22,220	11,893	10,327	19,483	10,172	9,311	----------	2,737	1,721	1,016
267	Paperboard containers and boxes	119,131	119,131	118,632	71,812	46,820	101,966	60,768	41,198	39	16,627	11,005	5,622
2671	Paperboard boxes	109,776	109,776	110,023	66,352	43,671	94,490	56,091	38,399	22	15,511	10,239	5,272
2674	Fiber cans, tubes, drums, etc	9,355	9,355	8,609	5,460	3,149	7,476	4,677	2,799	17	1,116	766	350
269	Pulp goods and misc. paper products	78,137	78,137	79,014	46,668	32,346	66,490	39,469	27,021	91	12,433	7,108	5,325
2691	Die-cut paper and board	8,488	8,488	8,818	5,015	3,803	7,334	4,171	3,163	11	1,473	833	640
2693	Wallpaper	5,462	5,462	5,433	4,486	947	4,688	3,971	717	3	742	512	230
2694	Pulp goods, pressed and molded	1,748	1,748	1,779	1,407	372	1,510	1,222	288	----------	269	185	84
2699	Converted paper products, n.e.c.	62,439	62,439	62,984	35,760	27,224	52,958	30,105	22,853	77	9,949	5,578	4,371
27	**Printing and publishing industries**	715,450	655,525	668,621	467,949	200,672	405,461	316,576	88,885	245	262,915	151,130	111,785
2711	Newspapers	234,375	212,127	217,032	174,966	42,066	108,203	101,651	6,552	63	108,766	73,252	35,514
2721	Periodicals	68,823	68,823	69,817	36,387	33,430	19,827	15,419	4,408	70	49,920	20,898	29,022
273	Books	50,900	50,900	51,424	27,805	23,619	17,765	12,281	5,484	10	33,649	15,514	18,135
2731	Books: publishing and printing	39,942	39,942	40,303	19,705	20,598	8,373	5,209	3,164	10	31,920	14,486	17,434
2732	Book printing	10,958	10,958	11,121	8,100	3,021	9,392	7,072	2,320	----------	1,729	1,028	701
2741	Miscellaneous publishing	12,036	12,036	12,016	6,958	5,058	3,414	2,170	1,244	----------	8,602	4,788	3,814
2751	Commercial printing	193,415	165,308	168,231	122,750	45,481	136,335	103,609	32,726	47	31,849	19,094	12,755
2761	Lithographing	52,240	49,754	51,054	36,244	14,810	40,582	29,966	10,616	33	10,439	6,245	4,194
2771	Greeting cards	18,053	18,053	19,245	7,288	11,957	13,650	4,812	8,838	----------	5,595	2,476	3,119
278	Bookbinding and related industries	42,561	39,906	40,608	22,489	18,119	34,907	19,355	15,552	7	5,694	3,127	2,567
2781	Bookbinding	22,227	20,694	20,999	11,982	9,017	19,088	10,993	8,095	6	1,905	983	922
2782	Blankbook making and paper ruling	8,768	8,215	8,266	4,377	3,889	6,614	3,406	3,208	----------	1,652	971	681
2783	Loose-leaf binders and devices	8,133	7,986	8,087	4,541	3,546	6,401	3,600	2,801	1	1,685	940	745
2789	Miscellaneous bookbinding work	3,433	3,011	3,256	1,589	1,667	2,804	1,356	1,448	----------	452	233	219
279	Printing trades service industries	43,047	38,618	39,194	33,062	6,132	30,778	27,313	3,465	15	8,401	5,736	2,665
2791	Typesetting	11,475	9,539	9,788	8,686	1,102	8,039	7,582	457	2	1,747	1,104	643
2792	Engraving and plate printing	7,688	6,646	6,648	3,553	3,095	5,690	3,083	2,607	1	957	469	488
2793	Photoengraving	16,711	15,508	15,688	14,312	1,376	11,577	11,261	316	2	4,109	3,049	1,060
2794	Electrotyping and stereotyping	7,173	6,925	7,070	6,511	559	5,472	5,387	85	10	1,588	1,114	474
28	**Chemicals and allied products**	632,319	626,490	634,774	514,648	120,126	466,596	395,260	71,336	9,451	158,727	109,937	48,790
281	Industrial inorganic chemicals	65,347	65,347	66,669	62,355	4,314	50,772	49,661	1,111	2,252	13,645	10,442	3,203
2312	Alkalies and chlorine	19,853	19,853	20,852	19,756	1,096	15,579	15,457	122	1,503	3,770	2,796	974
2819	Inorganic chemicals, n.e.c.	45,494	45,494	45,817	42,599	3,218	35,193	34,204	989	749	9,875	7,646	2,229
282	Industrial organic chemicals	206,295	206,295	206,507	174,371	32,136	158,268	137,168	21,100	6,015	42,224	31,188	11,036
2821	Cyclic (coal-tar) crudes	1,972	1,972	1,963	1,862	101	1,613	1,588	25	15	335	259	76
2823	Plastics materials	29,337	29,337	29,069	25,842	3,227	21,902	20,523	1,379	142	7,025	5,177	1,848
2824	Synthetic rubber	7,663	7,663	6,390	5,752	638	4,808	4,592	216	68	1,514	1,092	422
2825	Synthetic fibers	71,882	71,882	73,333	53,569	19,764	59,258	43,285	15,973	1,807	12,268	8,477	3,791
2826	Explosives	10,426	10,426	10,446	8,783	1,663	9,002	7,633	1,429	100	1,284	1,050	234
2829	Organic chemicals, n.e.c.	85,015	85,015	85,306	78,563	6,743	61,625	59,547	2,078	3,883	19,798	15,133	4,665
283	Drugs and medicines	81,803	80,587	80,116	46,825	33,291	53,081	30,123	22,958	23	27,012	16,679	10,333
2831	Biological products	3,154	3,154	3,084	2,154	930	2,121	1,514	607	1	962	639	323
2832	Botanical products	709	709	637	535	102	443	408	35	2	192	125	67
2833	Medicinal chemicals	12,388	12,388	12,550	9,515	3,035	9,345	7,412	1,933	5	3,200	2,098	1,102
2834	Pharmaceutical preparations	65,552	64,336	63,845	34,621	29,224	41,172	20,789	20,383	15	22,658	13,817	8,841
284	Soap and related products	44,962	43,740	44,325	33,454	10,871	28,700	22,868	5,832	----------	15,625	10,586	5,039
2841	Soap and glycerin	27,660	27,660	28,304	21,912	6,392	19,713	15,936	3,777	----------	8,591	5,976	2,615
2842	Cleaning and polishing preparations	15,352	14,130	14,082	9,829	4,253	7,762	5,737	2,025	----------	6,320	4,092	2,228
2843	Sulfonated oils and assistants	1,950	1,950	1,939	1,713	226	1,225	1,195	30	----------	714	518	196
285	Paints and allied products	67,807	67,057	67,413	57,805	9,608	44,753	41,865	2,888	505	22,155	15,435	6,720
2851	Paints and varnishes	53,412	52,662	52,981	44,290	8,691	33,692	31,046	2,646	104	19,185	13,140	6,045
2852	Inorganic color pigments	13,140	13,140	13,130	12,451	679	10,202	10,070	132	401	2,527	1,980	547
2853	Whiting and fillers	1,255	1,255	1,302	1,064	238	859	749	110	----------	443	315	128
286	Gum and wood chemicals	8,466	8,466	8,347	8,026	321	7,256	7,158	98	60	1,031	808	223
2861	Hardwood distillation	1,872	1,872	1,863	1,795	68	1,611	1,569	42	14	238	212	26
2862	Softwood distillation	4,574	4,574	4,395	4,235	160	3,893	3,838	55	39	463	358	105
2863	Gum naval stores (steam distilled)	638	638	703	674	29	570	570	----------	5	128	99	29
2865	Natural tanning and dyeing materials	1,382	1,382	1,386	1,322	64	1,182	1,181	1	2	202	139	63
287	Fertilizers	31,933	31,933	30,004	28,651	1,353	24,633	24,316	317	160	5,211	4,175	1,036
2871	Fertilizers	20,371	20,371	19,641	18,836	805	16,642	16,417	225	135	2,864	2,284	580
2872	Fertilizers (mixing only)	11,562	11,562	10,363	9,815	548	7,991	7,899	92	25	2,347	1,891	456
288	Vegetable and animal oils	43,431	43,431	50,072	48,097	1,975	41,998	41,484	514	233	7,841	6,380	1,461
2881	Cottonseed oil mills	14,398	14,398	19,756	19,350	406	17,290	17,194	96	68	2,398	2,088	310
2882	Linseed oil mills	1,577	1,577	1,576	1,542	34	1,346	1,342	4	----------	230	200	30
2883	Soybean oil mills	6,460	6,460	6,993	6,619	374	5,507	5,483	24	71	1,415	1,065	350
2884	Vegetable oil mills, n.e.c.	5,036	5,036	5,167	4,708	459	4,373	4,076	297	27	767	605	162
2885	Marine animal oils	1,947	1,947	2,322	2,267	55	2,151	2,143	8	5	166	119	47
2886	Grease and tallow	12,472	12,472	12,724	12,168	556	10,163	10,089	74	28	2,533	2,051	482
2887	Fatty acids	1,335	1,335	1,333	1,259	74	1,028	1,017	11	34	271	208	63
2889	Animal oils, n.e.c.	206	206	201	184	17	140	140	----------	----------	61	44	17

See footnotes at end of table.

TABLE 2.—NUMBER OF EMPLOYEES BY FUNCTIONAL CLASS AND SEX, FOR INDUSTRY GROUPS AND FOR INDUSTRIES: PAY ROLL PERIOD ENDED NEAREST OCTOBER 15, 1947—Continued

INDUSTRY AND INDUSTRY GROUP		Average for the year		Pay roll period ended nearest October 15, 1947									
		All employees		All employees			Production and related workers			Force-account construction workers	Administrative, supervisory, sales, technical, office, and all other personnel		
No.	Title	All establishments	Establishments reporting detailed employment figures	Total	Male [1]	Female [1]	Total	Male	Female		Total	Male	Female
28	Chemicals and allied products—Continued												
289	Miscellaneous chemical products	82,275	79,634	81,321	55,064	26,257	57,135	40,617	16,518	203	23,983	14,244	9,739
2891	Printing ink	6,021	6,021	6,040	5,438	602	4,153	4,071	82	----------	1,887	1,367	520
2892	Essential oils	1,151	1,151	1,187	951	236	906	777	129	----------	281	174	107
2893	Toilet preparations	26,023	24,930	26,707	9,423	17,284	18,919	5,947	12,972	47	7,741	3,429	4,312
2894	Glue and gelatin	5,372	5,372	5,393	4,825	568	4,324	4,065	259	6	1,063	754	309
2895	Carbon black	3,184	3,184	3,107	3,067	40	2,775	2,764	11	95	237	208	29
2896	Compressed and liquefied gases	8,983	8,983	8,959	7,684	1,275	6,125	6,092	33	9	2,825	1,583	1,242
2897	Insecticides and fungicides	4,579	4,579	4,208	3,563	645	2,797	2,564	233	----------	1,411	999	412
2898	Salt	4,809	4,809	5,294	4,547	747	4,503	3,959	544	1	790	587	203
2899	Chemical products, n.e.c	22,153	20,605	20,426	15,566	4,860	12,633	10,378	2,255	45	7,748	5,143	2,605
29	**Petroleum and coal products**	212,003	212,003	216,176	206,769	9,407	172,526	170,346	2,180	4,447	39,203	31,976	7,227
2911	Petroleum refining	145,806	145,806	148,240	141,480	6,760	115,383	113,874	1,509	4,207	28,650	23,399	5,251
293	Coke and byproducts	38,938	38,938	39,656	39,025	631	34,952	34,841	111	96	4,608	4,088	520
2931	Beehive coke ovens	3,100	3,100	3,207	3,177	30	3,030	3,029	1	3	174	145	29
2932	Byproduct coke ovens	35,838	35,838	36,449	35,848	601	31,922	31,812	110	93	4,434	3,943	491
295	Paving and roofing materials	19,263	19,263	20,305	19,158	1,147	16,671	16,305	366	130	3,504	2,723	781
2951	Paving mixtures and blocks	2,684	2,684	3,113	2,982	131	2,317	2,316	1	78	718	588	130
2952	Roofing felts and coatings	16,579	16,579	17,192	16,176	1,016	14,354	13,989	365	52	2,786	2,135	651
299	Misc. petroleum and coal products	7,996	7,996	7,975	7,106	869	5,520	5,326	194	14	2,441	1,766	675
2991	Fuel briquets and packaged fuel	1,204	1,204	1,229	1,202	27	1,060	1,058	2	7	162	137	25
2992	Lubricants, n.e.c	6,271	6,271	6,309	5,500	809	4,104	3,913	191	7	2,198	1,580	618
2999	Petroleum and coal products, n.e.c	521	521	437	404	33	356	355	1	----------	81	49	32
30	**Rubber products**	259,092	258,260	254,815	188,657	66,158	211,072	159,417	51,655	685	43,058	28,561	14,497
3011	Tires and inner tubes	115,657	115,657	113,060	94,329	18,731	92,083	79,554	12,529	627	20,350	14,148	6,202
3021	Rubber footwear	28,125	28,125	27,745	13,785	13,960	23,582	11,400	12,182	----------	4,163	2,385	1,778
3031	Reclaimed rubber	2,070	2,066	2,039	1,942	97	1,831	1,787	44	4	204	151	53
3099	Rubber industries, n.e.c	113,240	112,412	111,971	78,601	33,370	93,576	66,676	26,900	54	18,341	11,877	6,464
31	**Leather and leather products**	383,175	377,386	396,613	213,704	182,909	361,267	193,451	167,816	122	35,224	20,131	15,093
3111	Leather tanning and finishing	53,205	52,772	54,160	47,826	6,334	49,453	44,398	5,055	54	4,653	3,374	1,279
3121	Industrial leather belting	5,032	5,032	4,758	3,358	1,400	3,751	2,678	1,073	1	1,006	679	327
3131	Footwear cut stock	22,077	21,579	22,270	13,489	8,781	19,872	12,144	7,728	----------	2,398	1,345	1,053
314	Footwear (except rubber)	240,315	238,555	247,733	119,498	128,235	227,854	109,023	118,831	67	19,812	10,408	9,404
3141	Footwear, except rubber	229,303	227,543	234,189	113,311	120,878	215,384	103,428	111,956	63	18,742	9,820	8,922
3142	House slippers	11,012	11,012	13,544	6,187	7,357	12,470	5,595	6,875	4	1,070	588	482
315	Leather gloves and mittens	11,544	11,544	12,635	4,629	8,006	11,405	3,969	7,436	----------	1,230	660	570
3151	Leather dress gloves	8,968	8,968	9,890	3,553	6,337	8,952	3,070	5,882	----------	938	483	455
3152	Leather work gloves	2,576	2,576	2,745	1,076	1,669	2,453	899	1,554	----------	292	177	115
3161	Luggage	16,066	15,711	17,426	10,341	7,085	15,173	8,918	6,255	----------	2,253	1,423	830
317	Handbags and small leather goods	25,907	24,028	28,892	9,674	19,218	26,160	8,129	18,031	----------	2,732	1,545	1,187
3171	Handbags and purses	20,301	18,845	22,341	7,695	14,646	20,420	6,577	13,843	----------	1,921	1,118	803
3172	Small leather goods	5,606	5,183	6,551	1,979	4,572	5,740	1,552	4,188	----------	811	427	384
319	Miscellaneous leather goods	9,029	8,165	8,739	4,889	3,850	7,599	4,192	3,407	----------	1,140	697	443
3192	Saddlery, harness, and whips	2,861	2,861	2,724	2,153	571	2,354	1,897	457	----------	370	256	114
3199	Leather goods, n.e.c	6,168	5,304	6,015	2,736	3,279	5,245	2,295	2,950	----------	770	441	329
32	**Stone, clay, and glass products**	462,072	454,474	461,898	381,187	80,711	404,337	338,953	65,384	3,080	54,481	39,164	15,317
3211	Flat glass	27,241	27,241	27,377	24,974	2,403	24,196	22,520	1,676	176	3,005	2,278	727
322	Pressed and blown glassware	89,302	89,302	88,975	62,558	26,417	79,237	55,853	23,384	324	9,414	6,381	3,033
3221	Glass containers	47,132	47,132	46,994	32,768	14,226	41,887	29,094	12,793	324	4,783	3,350	1,433
3229	Pressed and blown glassware, n.e.c	42,170	42,170	41,981	29,790	12,191	37,350	26,759	10,591	----------	4,631	3,031	1,600
3231	Products of purchased glass	22,357	20,869	20,683	13,740	6,943	17,590	11,792	5,798	118	2,975	1,830	1,145
3241	Cement, hydraulic	35,662	35,662	36,820	35,834	986	31,680	31,362	318	525	4,615	3,947	668
325	Structural clay products	69,273	69,273	71,730	67,513	4,217	64,820	61,951	2,869	630	6,280	4,932	1,348
3251	Brick and hollow tile	29,617	29,617	30,896	30,340	556	28,125	27,995	130	339	2,432	2,006	426
3253	Floor and wall tile	5,828	6,328	7,311	4,549	2,762	6,696	4,145	2,551	13	602	391	211
3254	Sewer pipe	9,105	9,105	9,149	8,969	180	8,363	8,337	26	23	763	609	154
3255	Clay refractories	17,978	17,978	18,143	17,592	551	16,001	15,874	127	238	1,904	1,480	424
3259	Structural clay products, n.e.c	5,745	5,745	6,231	6,063	168	5,635	5,600	35	17	579	446	133
326	Pottery and related products	58,006	57,005	58,032	36,701	21,331	53,230	33,614	19,616	216	4,586	2,881	1,705
3261	Vitreous plumbing fixtures	7,831	7,831	7,642	7,070	572	6,803	6,445	358	8	831	617	214
3262	Vitreous-china food utensils	11,100	11,100	11,409	5,993	5,416	10,601	5,498	5,103	12	796	483	313
3263	Earthenware food utensils	16,747	16,747	17,135	10,097	7,038	16,007	9,390	6,617	174	954	543	411
3264	Porcelain electrical supplies	11,547	11,547	11,270	7,713	3,557	10,150	6,977	3,173	----------	1,120	736	384
3265	China decorating for the trade	1,048	1,000	1,054	404	650	877	301	576	----------	177	103	74
3269	Pottery products, n.e.c	9,733	8,771	9,522	5,424	4,098	8,792	5,003	3,789	22	708	399	309
327	Concrete and plaster products	70,176	66,614	69,914	67,635	2,279	61,108	60,632	476	392	8,414	6,611	1,803
3271	Concrete products	46,821	43,259	46,502	45,345	1,157	41,014	40,963	51	217	5,271	4,165	1,106
3272	Gypsum products	7,472	7,472	7,818	7,598	220	6,823	6,751	72	69	926	778	148
3274	Lime	7,009	7,009	7,008	6,807	201	6,131	6,116	15	52	825	639	186
3275	Mineral wool	8,874	8,874	8,586	7,885	701	7,140	6,802	338	54	1,392	1,029	363
3281	Cut-stone and stone products	9,880	8,876	9,413	8,934	479	7,834	7,789	45	39	1,540	1,106	434

See footnotes at end of table.

TABLE 2.—NUMBER OF EMPLOYEES BY FUNCTIONAL CLASS AND SEX, FOR INDUSTRY GROUPS AND FOR INDUSTRIES: PAY ROLL PERIOD ENDED NEAREST OCTOBER 15, 1947—Continued

Industry and industry group		Average for the year		Pay roll period ended nearest October 15, 1947									
		All employees		All employees			Production and related workers			Force-account construction workers	Administrative, supervisory, sales, technical, office, and all other personnel		
No.	Title	All establishments	Establishments reporting detailed employment figures	Total	Male [1]	Female [1]	Total	Male	Female		Total	Male	Female
32	Stone, clay, and glass products—Continued												
329	Misc. nonmetallic mineral products	80,175	79,632	78,954	63,298	15,656	64,642	53,440	11,202	660	13,652	9,198	4,454
3291	Abrasive products	20,754	20,754	19,540	14,772	4,768	14,608	11,641	2,967	64	4,868	3,067	1,801
3292	Asbestos products	21,463	21,463	21,710	18,352	3,358	18,281	15,908	2,373	99	3,330	2,345	985
3293	Gaskets and asbestos insulations	12,960	12,960	13,038	8,372	4,666	10,821	7,011	3,810	3	2,214	1,358	856
3294	Graphite: ground or blended	853	853	827	616	211	590	439	151	3	234	174	60
3295	Minerals: ground or treated	7,955	7,924	7,857	7,486	371	6,574	6,424	150	258	1,025	804	221
3296	Sand-lime products	303	303	291	279	12	246	245	1	----------	45	34	11
3297	Nonclay refractories	10,273	10,273	10,413	10,126	287	9,033	8,987	46	231	1,149	908	241
3298	Statuary and art goods	2,025	1,513	1,609	984	625	1,425	871	554	----------	184	113	71
3299	Nonmetallic mineral products, n.e.c.	3,589	3,589	3,669	2,311	1,358	3,064	1,914	1,150	2	603	395	208
33	**Primary metal industries**	1,157,124	1,152,901	1,148,303	1,089,338	58,965	1,000,116	973,175	26,941	4,903	143,284	111,260	32,024
331	Blast furnaces and steel mills	547,364	547,364	552,319	533,300	19,019	482,302	475,239	7,063	4,405	65,612	53,656	11,956
3311	Blast furnaces	36,937	36,937	37,460	36,962	498	33,340	33,213	127	335	3,785	3,414	371
3312	Steel works and rolling mills	500,799	500,799	505,404	487,271	18,133	440,946	434,075	6,871	4,070	60,388	49,126	11,262
3313	Electrometallurgical products	9,628	9,628	9,455	9,067	388	8,016	7,951	65	----------	1,439	1,116	323
332	Iron and steel foundries	267,306	265,294	264,421	253,532	10,889	236,538	231,810	4,728	244	27,639	21,478	6,161
3321	Gray-iron foundries	173,776	171,764	170,950	165,014	5,936	154,798	152,521	2,277	188	15,964	12,305	3,659
3322	Malleable-iron foundries	29,862	29,862	30,133	28,028	2,105	26,808	25,436	1,372	22	3,303	2,570	733
3323	Steel foundries	63,668	63,668	63,338	60,490	2,848	54,932	53,853	1,079	34	8,372	6,603	1,769
333	Primary nonferrous metals	42,804	42,804	42,321	41,227	1,094	36,960	36,727	233	49	5,312	4,451	861
3331	Primary copper	14,629	14,629	14,902	14,547	355	13,296	13,227	69	8	1,598	1,312	286
3332	Primary lead	4,663	4,663	4,841	4,731	110	4,188	4,157	31	----------	653	574	79
3333	Primary zinc	12,424	12,424	12,370	12,131	239	11,019	10,958	61	41	1,310	1,132	178
3334	Primary aluminum	8,919	8,919	8,082	7,818	264	6,607	6,601	6	----------	1,475	1,217	258
3339	Primary nonferrous metals, n.e.c.	2,169	2,169	2,126	2,000	126	1,850	1,784	66	----------	276	216	60
3341	Secondary nonferrous metals	18,402	18,402	18,151	16,864	1,287	14,530	14,247	283	15	3,606	2,602	1,004
335	Nonferrous metal rolling and drawing	88,824	88,824	83,063	77,183	5,880	69,475	67,403	2,072	12	13,576	9,768	3,808
3351	Copper rolling and drawing	53,867	53,867	50,919	47,555	3,364	43,044	42,059	985	----------	7,875	5,496	2,379
3352	Aluminum rolling and drawing	27,365	27,365	24,926	23,164	1,762	20,661	19,967	694	12	4,253	3,185	1,068
3359	Nonferrous metal rolling, n.e.c.	7,592	7,592	7,218	6,464	754	5,770	5,377	393	----------	1,448	1,087	361
3361	Nonferrous foundries	65,342	63,131	60,264	54,403	5,861	52,565	49,077	3,488	15	7,684	5,311	2,373
339	Miscellaneous primary metal industries	127,082	127,082	127,764	112,829	14,935	107,746	98,672	9,074	163	19,855	13,994	5,861
3391	Iron and steel forgings	36,724	36,724	37,423	35,764	1,659	32,947	32,566	381	41	4,435	3,157	1,278
3392	Wire drawing	55,079	55,079	55,852	45,370	10,482	46,209	38,626	7,583	91	9,552	6,653	2,899
3393	Welded and heavy-riveted pipe	13,144	13,144	13,337	12,392	945	11,466	10,987	479	----------	1,871	1,405	466
3399	Primary metal industries, n.e.c.	22,135	22,135	21,152	19,303	1,849	17,124	16,493	631	31	3,997	2,779	1,218
34	**Fabricated metal products**	971,461	947,040	957,134	778,537	178,597	806,517	674,997	131,520	1,285	149,332	102,257	47,075
3411	Tin cans and other tinware	46,890	46,890	48,673	34,311	14,362	42,458	29,870	12,588	323	5,892	4,118	1,774
342	Cutlery, hand tools, and hardware	154,168	152,068	150,947	110,842	40,105	128,219	96,428	31,791	49	22,679	14,365	8,314
3421	Cutlery	20,248	19,929	19,361	12,257	7,104	16,736	10,695	6,041	1	2,624	1,561	1,063
3422	Edge tools	8,828	8,554	8,403	7,419	984	7,167	6,638	529	5	1,231	776	455
3423	Hand tools, n.e.c.	35,668	35,084	34,230	27,963	6,267	28,723	24,601	4,122	18	5,489	3,344	2,145
3424	Files	4,446	4,446	4,214	3,663	551	3,854	3,393	461	1	359	269	90
3425	Hand saws and saw blades	8,441	8,441	8,497	7,292	1,205	7,304	6,495	809	----------	1,193	797	396
3429	Hardware, n.e.c.	76,537	75,614	76,242	52,248	23,994	64,435	44,606	19,829	24	11,783	7,618	4,165
343	Heating and plumbing equipment	150,882	148,901	153,168	135,494	17,674	128,444	118,575	9,869	127	24,597	16,792	7,805
3431	Metal plumbing fixtures and fittings	34,089	33,643	32,897	28,538	4,359	28,890	25,661	3,229	23	3,984	2,854	1,130
3432	Oil burners	6,318	6,318	6,464	5,378	1,086	4,752	4,316	436	4	1,708	1,058	650
3439	Heating and cooking apparatus, n.e.c.	110,475	108,940	113,807	101,578	12,229	94,802	88,598	6,204	100	18,905	12,880	6,025
344	Structural metal products	212,379	206,237	211,806	198,475	13,331	171,171	167,819	3,352	557	40,078	30,099	9,979
3441	Structural and ornamental products	79,678	77,682	79,488	75,709	3,779	63,789	63,399	390	362	15,337	11,948	3,389
3442	Metal doors, sash, and trim	21,079	20,410	21,304	18,995	2,309	17,452	16,268	1,184	47	3,805	2,680	1,125
3443	Boiler shop products	68,979	68,038	69,642	65,886	3,756	56,158	55,845	313	70	13,414	9,971	3,443
3444	Sheet-metal work	42,643	40,107	41,372	37,885	3,487	33,772	32,307	1,465	78	7,522	5,500	2,022
346	Metal stamping and coating	182,983	174,030	174,845	134,729	40,116	152,136	119,098	33,038	71	22,638	15,560	7,078
3461	Vitreous-enameled products	12,240	12,240	12,266	7,503	4,763	11,087	6,737	4,350	----------	1,179	766	413
3463	Metal stampings	132,011	128,869	129,627	100,185	29,442	111,757	87,670	24,087	58	17,812	12,457	5,355
3465	Enameling and lacquering	4,025	3,406	3,422	2,613	809	3,073	2,377	696	----------	349	236	113
3466	Galvanizing	3,056	2,686	2,763	2,504	259	2,441	2,283	158	----------	322	221	101
3467	Engraving on metal	3,428	3,063	2,909	1,967	942	2,433	1,699	734	----------	476	268	208
3468	Plating and polishing	28,223	23,766	23,858	19,957	3,901	21,345	18,332	3,013	13	2,500	1,612	888
3471	Lighting fixtures	47,596	46,089	47,495	32,225	15,270	39,663	27,369	12,294	12	7,820	4,844	2,976
348	Fabricated wire products	60,647	59,434	59,863	44,464	15,399	51,606	38,969	12,637	120	8,137	5,376	2,761
3481	Nails and spikes	3,805	3,805	3,832	2,756	1,076	3,275	2,441	834	----------	557	315	242
3489	Wirework, n.e.c.	56,842	55,629	56,031	41,708	14,323	48,331	36,528	11,803	120	7,580	5,061	2,519
349	Miscellaneous fabricated metal products	115,916	113,391	110,337	87,997	22,340	92,820	76,869	15,951	26	17,491	11,103	6,388
3491	Metal barrels, drums, and pails	10,915	10,915	10,329	8,844	1,485	8,810	7,790	1,020	3	1,516	1,051	465
3492	Safes and vaults	3,754	3,754	3,547	3,210	337	2,812	2,715	97	----------	735	495	240
3493	Steel springs	7,760	7,760	7,943	7,494	449	6,874	6,760	114	----------	1,069	734	335
3494	Bolts, nuts, washers, and rivets	49,235	48,933	48,470	37,894	10,576	40,233	32,966	7,267	21	8,216	4,907	3,309
3495	Screw-machine products	28,492	27,211	25,384	20,402	4,982	21,684	17,986	3,698	2	3,698	2,415	1,283
3496	Collapsible tubes	3,866	3,866	3,748	1,365	2,383	3,319	1,099	2,220	----------	429	266	163
3497	Metal foil	4,261	4,261	4,178	3,273	905	3,576	2,870	706	----------	602	403	199
3499	Fabricated metal products, n.e.c.	7,633	6,691	6,738	5,515	1,223	5,512	4,683	829	----------	1,226	832	394

See footnotes at end of table.

TABLE 2.—NUMBER OF EMPLOYEES BY FUNCTIONAL CLASS AND SEX, FOR INDUSTRY GROUPS AND FOR INDUSTRIES: PAY ROLL PERIOD ENDED NEAREST OCTOBER 15, 1947—Continued

INDUSTRY AND INDUSTRY GROUP		Average for the year		Pay roll period ended nearest October 15, 1947									
		All employees		All employees			Production and related workers			Force-account construction workers	Administrative, supervisory, sales, technical, office, and all other personnel		
No.	Title	All establishments	Establishments reporting detailed employment figures	Total	Male [1]	Female [1]	Total	Male	Female		Total	Male	Female
35	**Machinery (except electrical)**	1,545,323	1,524,616	1,521,996	1,321,369	200,627	1,219,588	1,113,233	106,355	1,053	301,355	207,086	94,269
351	Engines and turbines	93,064	93,064	91,221	80,752	10,469	70,387	66,064	4,323	15	20,819	14,673	6,146
3511	Steam engines and turbines	21,640	21,640	22,325	20,176	2,149	16,136	15,681	455	----------	6,189	4,495	1,694
3519	Internal-combustion engines	71,424	71,424	68,896	60,576	8,320	54,251	50,383	3,868	15	14,630	10,178	4,452
352	Tractors and farm machinery	171,435	170,330	172,424	156,211	16,213	139,901	132,909	6,992	375	32,148	22,927	9,221
3521	Tractors	77,317	77,317	78,196	70,642	7,554	63,643	60,077	3,566	263	14,290	10,302	3,988
3522	Farm machinery (except tractors)	94,118	93,013	94,228	85,569	8,659	76,258	72,832	3,426	112	17,858	12,625	5,233
353	Construction and mining machinery	113,871	113,785	114,129	105,477	8,652	88,958	87,353	1,605	101	25,070	18,023	7,047
3531	Construction and mining machinery	84,694	84,608	84,659	78,179	6,480	66,064	65,152	912	67	18,528	12,960	5,568
3532	Oil-field machinery and tools	29,177	29,177	29,470	27,298	2,172	22,894	22,201	693	34	6,542	5,063	1,479
354	Metalworking machinery	214,543	209,215	202,027	181,078	20,949	161,079	153,180	7,899	31	40,917	27,867	13,050
3541	Machine tools	70,657	70,526	67,065	60,543	6,522	51,499	49,775	1,724	----------	15,566	10,768	4,798
3542	Metalworking machinery, n.e.c.	54,988	54,542	53,772	47,971	5,801	42,499	40,217	2,282	----------	11,273	7,754	3,519
3543	Cutting tools, jigs, fixtures, etc.	88,898	84,147	81,190	72,564	8,626	67,081	63,188	3,893	31	14,078	9,345	4,733
355	Special-industry machinery, n.e.c.	215,967	212,425	213,597	193,601	19,996	170,867	164,001	6,866	113	42,617	29,487	13,130
3551	Food-products machinery	36,839	36,139	36,264	33,102	3,162	28,145	27,366	779	3	8,116	5,733	2,383
3552	Textile machinery	53,583	53,559	54,758	48,518	6,240	46,360	42,879	3,481	14	8,384	5,625	2,759
3553	Woodworking machinery	15,642	15,442	14,931	13,591	1,340	11,907	11,556	351	12	3,012	2,023	989
3554	Paper-industries machinery	17,088	17,088	17,382	16,156	1,226	13,650	13,530	120	13	3,719	2,613	1,106
3555	Printing-trades machinery	24,752	24,308	24,496	21,723	2,773	19,306	18,387	919	10	5,180	3,326	1,854
3559	Special-industry machinery, n.e.c.	68,063	65,889	65,766	60,511	5,255	51,499	50,283	1,216	61	14,206	10,167	4,039
356	General industrial machinery	217,402	215,620	214,453	188,619	25,834	161,121	151,628	9,493	94	53,238	36,897	16,341
3561	Pumps and compressors	54,726	54,346	53,801	47,630	6,171	39,561	37,969	1,592	33	14,207	9,628	4,579
3562	Elevators and escalators	10,227	10,227	10,241	9,244	997	7,259	7,051	208	----------	2,982	2,193	789
3563	Conveyors	24,578	24,420	24,763	22,624	2,139	18,063	17,647	416	33	6,667	4,944	1,723
3564	Blowers and fans	14,794	14,794	14,625	12,916	1,709	10,861	10,278	583	----------	3,764	2,638	1,126
3565	Industrial trucks and tractors	13,974	13,974	14,118	12,596	1,522	10,766	10,462	304	----------	3,352	2,134	1,218
3566	Power-transmission equipment	54,316	53,844	52,919	44,122	8,797	42,587	37,138	5,449	24	10,308	6,960	3,348
3567	Industrial furnaces and ovens	6,341	6,341	6,168	5,627	541	3,935	3,874	61	4	2,229	1,749	480
3568	Mechanical stokers	4,111	4,111	4,191	3,835	356	3,200	3,183	17	----------	991	652	339
3569	General industrial machinery, n.e.c.	34,335	33,563	33,627	30,025	3,602	24,889	24,026	863	----------	8,738	5,999	2,739
357	Office and store machines	97,778	97,778	102,206	73,677	28,529	88,176	64,953	23,223	----------	14,030	8,724	5,306
3571	Computing and related machines	46,375	46,375	49,122	36,649	12,473	42,668	32,550	10,118	----------	6,454	4,099	2,355
3572	Typewriters	26,604	26,604	28,275	18,119	10,156	25,466	16,554	8,912	----------	2,809	1,565	1,244
3576	Scales and balances	6,526	6,526	6,685	5,593	1,092	5,017	4,404	613	----------	1,668	1,189	479
3579	Office and store machines, n.e.c.	18,273	18,273	18,124	13,316	4,808	15,025	11,445	3,580	----------	3,099	1,871	1,228
358	Service and household machines	220,286	219,417	225,329	188,330	36,999	184,913	161,129	23,784	302	40,114	26,899	13,215
3581	Domestic laundry equipment	28,403	28,403	30,418	24,958	5,460	25,433	21,583	3,850	10	4,975	3,365	1,610
3582	Laundry and dry-cleaning machinery	9,093	9,093	8,275	7,412	863	6,150	5,998	152	12	2,113	1,402	711
3583	Sewing machines	15,305	15,305	15,990	13,000	2,990	13,234	11,031	2,203	209	2,547	1,760	787
3584	Vacuum cleaners	14,880	14,880	15,671	10,869	4,802	12,642	9,176	3,466	----------	3,029	1,693	1,336
3585	Refrigeration machinery	129,290	128,421	132,218	113,124	19,094	110,938	98,434	12,504	71	21,209	14,619	6,590
3586	Measuring and dispensing pumps	12,083	12,083	11,592	9,705	1,887	8,411	7,566	845	----------	3,181	2,139	1,042
3589	Service and household machines, n.e.c.	11,232	11,232	11,165	9,262	1,903	8,105	7,341	764	----------	3,060	1,921	1,139
359	Miscellaneous machinery parts	200,977	192,982	186,610	153,624	32,986	154,186	132,016	22,170	22	32,402	21,589	10,813
3591	Valves and fittings, except plumbers'	80,075	79,776	77,245	66,361	10,884	63,191	57,099	6,092	11	14,043	9,254	4,789
3592	Fabricated pipe and fittings	10,568	10,568	10,849	10,047	802	8,465	8,269	196	11	2,373	1,767	606
3593	Ball and roller bearings	52,174	52,174	51,346	38,661	12,685	44,285	33,911	10,374	----------	7,061	4,750	2,311
3599	Machine shops	58,160	50,464	47,170	38,555	8,615	38,245	32,737	5,508	----------	8,925	5,818	3,107
36	**Electrical machinery**	801,359	798,915	798,909	487,870	311,039	636,321	380,779	255,542	395	162,193	106,696	55,497
361	Electrical industrial apparatus	321,352	321,352	321,827	220,923	100,904	253,860	176,587	77,273	40	67,927	44,296	23,631
3611	Wiring devices and supplies	38,367	38,367	38,290	22,299	15,991	32,345	18,792	13,553	23	5,922	3,484	2,438
3612	Carbon and graphite products	7,818	7,818	7,511	6,084	1,427	6,084	5,107	977	----------	1,427	977	450
3613	Electrical measuring instruments	20,926	20,926	20,710	12,862	7,848	15,886	9,807	6,079	----------	4,824	3,055	1,769
3614	Motors and generators	127,012	127,012	128,895	91,031	37,864	103,814	74,263	29,551	----------	25,081	16,768	8,313
3615	Transformers	36,635	36,635	38,018	27,637	10,381	29,483	22,118	7,365	----------	8,535	5,519	3,016
3616	Electrical control apparatus	72,330	72,330	71,499	49,433	22,066	53,606	37,810	15,796	----------	17,893	11,623	6,270
3617	Electrical welding apparatus	7,265	7,265	7,065	6,178	887	4,974	4,717	257	12	2,079	1,449	630
3619	Electrical industrial apparatus, n.e.c.	10,999	10,999	9,839	5,399	4,440	7,668	3,973	3,695	5	2,166	1,421	745
3621	Electrical appliances	44,371	43,877	45,424	29,074	16,350	38,081	24,431	13,650	2	7,341	4,641	2,700
3631	Insulated wire and cable	21,282	21,282	20,705	13,940	6,765	17,660	11,960	5,640	----------	3,105	1,980	1,125
3641	Engine electrical equipment	43,920	43,920	41,307	26,808	14,499	35,332	22,660	12,672	63	5,912	4,085	1,827
3651	Electric lamps	23,842	23,842	23,433	6,115	17,318	21,170	4,833	16,337	11	2,252	1,271	981
366	Communication equipment	303,391	301,743	300,954	160,237	140,717	232,710	114,469	118,241	279	67,965	45,489	22,476
3661	Radios and related products	178,595	176,947	173,814	87,016	86,798	138,497	62,957	75,540	279	35,038	23,780	11,258
3662	Electronic tubes	27,703	27,703	26,555	7,852	18,703	21,543	4,815	16,728	----------	5,012	3,037	1,975
3663	Phonograph records	10,045	10,045	10,785	6,954	3,831	8,886	5,832	3,054	----------	1,899	1,122	777
3664	Telephone and telegraph equipment	76,072	76,072	79,211	50,556	28,655	56,312	35,066	21,246	----------	22,899	15,490	7,409
3669	Communication equipment, n.e.c.	10,976	10,976	10,589	7,859	2,730	7,472	5,799	1,673	----------	3,117	2,060	1,057
369	Miscellaneous electrical products	43,201	42,899	45,259	30,773	14,486	37,568	25,839	11,729	----------	7,691	4,934	2,757
3691	Storage batteries	16,570	16,570	17,598	15,552	2,046	14,484	13,523	961	----------	3,114	2,029	1,085
3692	Primary batteries (dry and wet)	10,261	10,261	10,734	5,215	5,519	9,598	4,443	5,155	----------	1,136	772	364
3693	X-ray and therapeutic apparatus	7,678	7,525	7,131	5,618	1,513	4,995	4,282	713	----------	2,136	1,336	800
3699	Electrical products, n.e.c.	8,692	8,543	9,796	4,388	5,408	8,491	3,591	4,900	----------	1,305	797	508

See footnotes at end of table.

TABLE 2.—NUMBER OF EMPLOYEES BY FUNCTIONAL CLASS AND SEX, FOR INDUSTRY GROUPS AND FOR INDUSTRIES: PAY ROLL PERIOD ENDED NEAREST OCTOBER 15, 1947—Continued

No.	Industry and industry group	Average for the year: All employees: All establishments	Average for the year: All employees: Establishments reporting detailed employment figures	Pay roll period ended nearest October 15, 1947: All employees: Total	All employees: Male [1]	All employees: Female [1]	Production and related workers: Total	Production and related workers: Male	Production and related workers: Female	Force-account construction workers	Administrative, supervisory, sales, technical, office, and all other personnel: Total	Administrative: Male	Administrative: Female
37	**Transportation equipment**	**1,181,680**	**1,177,578**	**1,142,230**	**1,027,854**	**114,376**	**952,279**	**886,049**	**66,230**	**162**	**189,789**	**141,643**	**48,146**
371	Motor vehicles and equipment	701,121	698,865	694,799	621,429	73,370	593,890	546,494	47,396	122	100,787	74,813	25,974
3717	Motor vehicles and parts	653,169	652,344	647,034	576,227	70,807	553,467	506,596	46,871	63	93,504	69,568	23,936
3713	Truck and bus bodies	26,646	25,707	26,905	25,524	1,381	22,984	22,705	279	27	3,894	2,792	1,102
3715	Truck trailers	12,020	11,876	10,651	9,917	734	8,249	8,219	30	1	2,401	1,697	704
3716	Automobile trailers	9,286	8,938	10,209	9,761	448	9,190	8,974	216	31	988	756	232
372	Aircraft and parts	219,611	219,611	212,856	184,346	28,510	157,685	143,215	14,470	----------	55,171	41,131	14,040
3721	Aircraft	146,625	146,625	140,568	121,054	19,514	105,191	94,432	10,759	----------	35,377	26,622	8,755
3722	Aircraft engines	50,253	50,253	49,628	43,284	6,344	35,851	33,203	2,648	----------	13,777	10,081	3,696
3723	Aircraft propellers	7,423	7,423	7,634	6,857	777	5,067	4,920	147	----------	2,567	1,937	630
3729	Aircraft equipment, n.e.c.	15,310	15,310	15,026	13,151	1,875	11,576	10,660	916	----------	3,450	2,491	959
373	Ships and boats	149,655	148,116	121,921	118,162	3,759	106,117	105,805	312	25	15,779	12,332	3,447
3731	Ship building and repairing	130,200	130,200	105,755	103,668	3,087	92,051	92,716	235	17	13,787	10,935	2,852
3732	Boat building and repairing	19,455	17,916	15,166	14,494	672	13,166	13,089	77	8	1,992	1,397	595
374	Railroad equipment	91,116	91,116	92,285	86,688	5,597	76,889	75,055	1,834	14	15,382	11,619	3,763
3741	Locomotives and parts	30,337	30,337	30,362	28,281	2,081	25,563	24,655	908	14	4,785	3,612	1,173
3742	Railroad and street cars	60,779	60,779	61,923	58,407	3,516	51,326	50,400	926	----------	10,597	8,007	2,590
3751	Motorcycles and bicycles	15,615	15,615	16,367	13,520	2,847	14,353	12,209	2,144	1	2,013	1,310	703
3799	Transportation equipment, n.e.c.	4,562	4,255	4,002	3,709	293	3,345	3,271	74	----------	657	438	219
38	**Instruments and related products**	**231,997**	**228,821**	**225,999**	**144,633**	**81,366**	**175,751**	**112,278**	**63,473**	**868**	**49,440**	**31,574**	**17,866**
3811	Scientific instruments	20,384	20,384	20,941	16,190	4,751	15,245	12,194	3,051	25	5,671	3,971	1,700
3821	Mechanical measuring instruments	53,237	52,761	51,290	36,375	14,915	30,020	28,585	10,435	2	12,268	7,788	4,480
3831	Optical instruments and lenses	6,458	6,458	6,531	4,438	2,093	5,303	3,669	1,634	----------	1,228	769	459
384	Medical instruments and supplies	38,369	36,841	35,746	20,777	14,969	26,947	15,822	11,125	1	8,798	4,954	3,844
3841	Surgical and medical instruments	6,980	6,980	6,969	4,579	2,390	5,773	3,926	1,847	1	1,195	652	543
3842	Surgical appliances and supplies	22,315	21,038	20,601	11,276	9,325	14,939	8,125	6,814	----------	5,662	3,151	2,511
3843	Dental equipment and supplies	9,074	8,823	8,176	4,922	3,254	6,235	3,771	2,464	----------	1,941	1,151	790
3851	Ophthalmic goods	22,457	22,136	20,873	12,686	8,187	18,217	11,132	7,085	----------	2,656	1,554	1,102
3861	Photographic equipment	50,911	50,454	50,506	35,388	15,118	36,057	25,033	11,024	776	13,673	9,606	4,067
387	Watches and clocks	40,181	39,787	40,112	18,779	21,333	34,962	15,843	19,119	4	5,146	2,932	2,214
3871	Watches and clocks	34,623	34,376	34,526	15,324	19,202	30,046	12,751	17,295	4	4,476	2,569	1,907
3872	Watchcases	5,558	5,411	5,586	3,455	2,131	4,916	3,092	1,824	----------	670	363	307
39	**Miscellaneous manufactures**	**464,420**	**442,110**	**468,009**	**280,991**	**187,018**	**399,979**	**241,060**	**158,919**	**126**	**67,904**	**39,808**	**28,096**
391	Jewelry and silverware	54,827	52,533	55,758	36,505	19,253	46,514	31,786	14,728	22	9,222	4,699	4,523
3911	Jewelry (precious metal)	25,566	23,941	25,328	15,108	10,220	20,250	12,577	7,673	18	5,060	2,515	2,545
3912	Jewelers' findings	6,056	6,056	6,420	3,927	2,493	5,558	3,434	2,124	4	858	489	369
3913	Lapidary work	1,699	1,244	1,370	920	450	1,191	829	362	----------	179	91	88
3914	Silverware and plated ware	21,506	21,292	22,640	16,550	6,090	19,515	14,946	4,569	----------	3,125	1,604	1,521
393	Musical instruments and parts	16,889	16,522	17,242	13,588	3,654	15,084	12,268	2,816	----------	2,158	1,320	838
3931	Pianos	6,978	6,978	7,250	6,395	855	6,405	5,811	594	----------	845	584	261
3932	Organs	1,337	1,337	1,472	1,133	339	1,260	1,005	255	----------	212	128	84
3933	Piano and organ parts	3,209	3,209	3,320	2,345	975	3,051	2,177	874	----------	269	168	101
3939	Musical instruments, n.e.c.	5,365	4,998	5,200	3,715	1,485	4,368	3,275	1,093	----------	832	440	392
394	Toys and sporting goods	75,493	70,683	80,011	41,037	38,974	71,548	36,339	35,209	26	8,437	4,673	3,764
3941	Games and toys, n.e.c.	27,140	25,245	30,606	13,861	16,745	27,600	12,176	15,424	12	2,994	1,673	1,321
3942	Dolls	9,797	9,105	12,234	4,748	7,486	11,291	4,256	7,035	----------	943	492	451
3943	Children's vehicles	8,783	8,678	9,935	7,291	2,644	8,864	6,677	2,187	----------	1,071	614	457
3949	Sporting and athletic goods	29,773	27,655	27,236	15,137	12,099	23,793	13,230	10,563	14	3,429	1,894	1,535
395	Office supplies	31,557	31,315	30,552	15,050	15,502	23,896	11,769	12,127	----------	6,656	3,281	3,375
3951	Pens and mechanical pencils	15,553	15,553	14,836	5,586	9,250	11,958	4,527	7,431	----------	2,878	1,059	1,819
3952	Lead pencils and crayons	6,279	6,279	6,270	3,102	3,168	5,206	2,462	2,744	----------	1,064	640	424
3953	Hand stamps and stencils	4,684	4,442	4,473	3,374	1,099	3,235	2,642	593	----------	1,238	732	506
3954	Artists' materials	1,360	1,360	1,327	711	616	973	523	450	----------	354	188	166
3955	Carbon paper and inked ribbons	3,681	3,681	3,646	2,277	1,369	2,524	1,615	909	----------	1,122	662	460
396	Costume jewelry and notions	65,878	61,761	68,208	30,211	37,997	59,789	25,555	34,234	----------	8,419	4,656	3,763
3961	Costume jewelry	25,371	23,718	29,315	12,765	16,550	25,993	11,018	14,975	----------	3,322	1,747	1,575
3962	Artificial flowers	7,130	6,102	6,625	1,792	4,833	6,061	1,457	4,604	----------	564	335	229
3963	Buttons	10,418	9,603	9,514	5,090	4,424	8,556	4,487	4,069	----------	958	603	355
3964	Needles, pins, and fasteners	22,959	22,338	22,754	10,564	12,190	19,179	8,593	10,586	----------	3,575	1,971	1,604
3971	Plastics products, n.e.c.	60,092	57,881	59,918	37,876	22,042	51,170	32,346	18,824	6	8,742	5,524	3,218
399	Miscellaneous manufactures	159,684	151,415	156,320	106,724	49,596	131,978	90,997	40,981	72	24,270	15,655	8,615
3981	Brooms and brushes	18,551	17,672	17,391	10,561	6,830	14,323	8,729	5,594	5	3,063	1,827	1,236
3982	Cork products	2,485	2,485	2,424	1,848	576	2,093	1,619	474	----------	331	229	102
3983	Matches	7,360	7,350	7,273	4,006	3,267	6,472	3,515	2,957	----------	801	491	310
3984	Candles	2,405	2,405	2,469	1,247	1,222	1,955	934	1,021	----------	514	313	201
3985	Fireworks and pyrotechnics	3,251	3,251	3,316	1,883	1,433	3,019	1,693	1,326	35	262	155	107
3986	Jewelry and instrument cases	7,383	6,995	6,698	3,002	3,696	5,976	2,586	3,390	----------	722	416	306
3987	Lamp shades	4,488	3,731	4,542	966	3,576	4,155	795	3,360	----------	387	171	216
3988	Morticians' goods	22,375	21,984	22,642	18,194	4,448	18,510	15,119	3,391	32	4,100	3,043	1,057
3991	Beauty and barber-shop equipment	4,065	4,065	3,773	2,341	1,432	2,905	1,813	1,092	----------	868	528	340
3992	Furs, dressed and dyed	6,848	6,602	7,389	6,542	847	6,654	5,958	696	----------	735	584	151
3993	Signs and advertising displays	28,879	25,692	26,823	21,110	5,713	22,067	18,002	4,065	----------	4,756	3,108	1,648
3994	Hair work	1,170	1,170	1,407	379	1,028	1,267	298	969	----------	140	81	59
3995	Umbrellas, parasols, and canes	3,585	3,319	3,701	1,376	2,325	3,390	1,194	2,196	----------	311	182	129
3996	Tobacco pipes	3,140	3,140	3,216	2,282	934	2,833	2,025	808	----------	383	257	126
3997	Soda-fountain and bar equipment	2,739	2,739	2,759	2,580	179	2,231	2,188	43	----------	528	392	136
3998	Models and patterns (exc. paper)	1,868	1,145	1,158	825	333	1,011	742	269	----------	147	83	64
1951	Small arms (3989)	10,453	10,453	10,892	9,590	1,302	9,631	8,834	797	----------	1,261	756	505
1961	Small arms ammunition (3990)	8,050	8,050	8,120	4,895	3,225	6,793	3,995	2,798	----------	1,327	900	427
3999	Miscellaneous products, n.e.c.	20,599	19,167	20,327	13,097	7,230	16,693	10,958	5,735	----------	3,634	2,139	1,495

[1] Includes figures for force-account construction workers, not shown separately by sex.

[2] Data for shingle mills (industry 2423), lath mills, and sawmills producing less than 1,000 M board feet of lumber are included in the first column only. Figures in other columns represent only those sawmills producing 1,000 M or more board feet of lumber, exclusive planing mills and dimension plants.

TABLE 3.—NUMBER OF EMPLOYEES BY FUNCTIONAL CLASS AND SEX, FOR DIVISIONS, STATES, AND STANDARD METROPOLITAN AREAS: PAY ROLL PERIOD ENDED NEAREST OCTOBER 15, 1947

[For explanation of column captions, see GENERAL EXPLANATIONS. All establishments except those reporting on short forms were requested to report the number of employees by functional class and by sex for the pay roll period ended nearest October 15, 1947. The first two columns of the table provide a measure of the importance of the establishments which supplied this information]

DIVISION, STATE, AND AREA	Average for the year		Pay roll period ended nearest October 15, 1947									
	All employees		All employees			Production and related workers			Force-account construction workers	Administrative, supervisory, sales, technical, office, and all other personnel		
	All establishments	Establishments reporting detailed employment figures	Total	Male [1]	Female [1]	Total	Male	Female		Total	Male	Female
United States	14,294,304	13,960,904	14,228,345	10,393,127	3,835,218	11,839,081	8,744,276	3,094,805	39,753	2,349,511	1,609,192	740,319
New England	1,474,684	1,445,443	1,450,162	966,104	484,058	1,225,432	823,729	401,703	1,576	223,154	140,848	82,306
Maine	100,181	97,607	100,908	68,730	32,178	91,187	62,181	29,006	571	9,150	5,980	3,170
New Hampshire	74,752	73,000	73,941	48,437	25,504	65,642	43,168	22,474	135	8,164	5,134	3,030
Vermont	34,872	33,615	33,561	24,408	9,153	29,064	21,350	7,714	38	4,459	3,020	1,439
Massachusetts	718,441	705,726	708,988	468,566	240,422	592,284	394,799	197,485	369	116,335	73,404	42,931
Rhode Island	146,850	144,243	148,742	88,317	60,425	129,947	76,669	53,278	111	18,684	11,542	7,142
Connecticut	399,588	391,252	384,022	267,646	116,376	317,308	225,562	91,746	352	66,362	41,768	24,594
Middle Atlantic	3,953,738	3,865,980	3,968,175	2,713,383	1,254,792	3,256,585	2,238,879	1,017,706	8,742	702,848	465,832	237,016
New York	1,775,975	1,721,360	1,792,300	1,152,581	639,719	1,438,259	926,172	512,087	3,701	350,340	222,843	127,497
New Jersey	738,229	725,769	735,477	510,056	225,421	599,131	416,794	182,337	1,892	134,454	91,330	43,124
Pennsylvania	1,439,534	1,418,851	1,440,398	1,050,746	389,652	1,219,195	895,913	323,282	3,149	218,054	151,659	66,395
East North Central	4,317,892	4,254,503	4,298,863	3,358,086	940,777	3,544,684	2,836,008	708,676	8,234	745,945	513,600	232,345
Ohio	1,194,603	1,182,912	1,198,377	951,071	247,306	988,984	805,349	183,635	2,149	207,244	143,526	63,718
Indiana	548,346	539,658	560,565	429,181	121,384	459,901	364,913	94,988	2,059	88,605	62,125	26,480
Illinois	1,184,820	1,161,647	1,177,088	851,855	325,233	946,360	697,924	248,436	1,552	229,176	152,296	76,880
Michigan	973,675	960,891	962,567	808,198	154,369	812,076	698,228	113,848	1,402	149,089	108,491	40,598
Wisconsin	416,448	409,395	410,266	317,781	92,485	337,363	269,594	67,769	1,072	71,831	47,162	24,669
West North Central	785,064	764,405	778,039	567,202	210,837	627,767	464,054	163,713	1,639	148,633	101,537	47,096
Minnesota	179,986	175,061	176,988	131,066	45,922	141,513	106,695	34,818	235	35,240	24,140	11,100
Iowa	140,426	136,849	139,836	108,838	30,998	111,578	89,423	22,155	97	28,161	19,318	8,843
Missouri	327,515	320,856	325,732	218,426	107,306	267,578	179,641	87,937	787	57,367	38,014	19,353
North Dakota	5,218	4,764	4,958	3,751	1,207	3,600	2,760	840	16	1,342	975	367
South Dakota	10,265	9,617	9,965	7,819	2,146	7,818	6,348	1,470	29	2,118	1,446	672
Nebraska	47,031	45,227	47,550	35,577	11,973	37,734	28,482	9,252	240	9,576	6,858	2,718
Kansas	74,624	72,031	73,010	61,725	11,285	57,946	50,705	7,241	235	14,829	10,786	4,043
South Atlantic	1,523,495	1,477,513	1,505,520	1,034,069	471,451	1,325,256	899,848	425,408	7,513	172,751	126,820	45,931
Delaware	34,465	33,492	34,856	26,376	8,480	29,194	22,159	7,035	374	5,288	3,846	1,442
Maryland	228,553	224,780	224,631	165,222	59,409	185,022	136,108	48,914	838	38,771	28,279	10,492
District of Columbia	17,815	17,156	17,097	12,736	4,361	9,399	7,864	1,535	----------	7,698	4,872	2,826
Virginia	216,637	208,033	215,900	152,493	63,407	188,988	132,589	56,399	1,738	25,174	18,259	6,915
West Virginia	127,353	123,703	125,738	98,196	27,542	107,265	83,872	23,393	1,673	16,800	12,651	4,149
North Carolina	381,480	373,010	386,666	243,459	143,207	354,394	219,213	135,181	1,129	31,143	23,124	8,019
South Carolina	188,601	186,277	186,767	122,756	64,011	173,843	113,026	60,817	747	12,177	8,984	3,193
Georgia	249,926	237,572	242,519	156,904	85,615	218,229	138,737	79,492	385	23,905	17,783	6,122
Florida	78,665	73,490	71,346	55,927	15,419	58,922	46,280	12,642	629	11,795	9,022	2,773
East South Central	633,765	610,585	615,915	453,676	162,239	539,082	396,693	142,389	2,880	73,953	54,129	19,824
Kentucky	129,504	125,498	123,530	87,866	35,664	104,551	74,129	30,422	549	18,430	13,199	5,231
Tennessee	221,454	215,159	217,230	148,838	68,392	187,752	127,484	60,268	320	29,158	21,046	8,112
Alabama	206,136	197,961	201,823	160,541	41,282	180,747	144,304	36,443	1,833	19,243	14,405	4,838
Mississippi	76,671	71,967	73,332	56,431	16,901	66,032	50,776	15,256	178	7,122	5,479	1,643
West South Central	550,241	527,339	542,691	452,569	90,122	446,820	377,715	69,105	6,017	89,854	68,872	20,982
Arkansas	65,321	61,275	63,464	53,786	9,678	56,111	48,023	8,088	701	6,652	5,065	1,587
Louisiana	132,464	128,204	134,050	113,640	20,410	112,417	96,335	16,082	2,759	18,874	14,554	4,320
Oklahoma	55,403	52,475	54,539	47,127	7,412	43,402	38,527	4,875	115	11,022	8,485	2,537
Texas	297,053	285,385	290,638	238,016	52,622	234,890	194,830	40,060	2,442	53,306	40,768	12,538
Mountain	141,638	134,115	146,548	123,531	23,017	120,741	104,613	16,128	764	25,043	18,155	6,888
Montana	16,692	15,065	16,768	15,476	1,292	14,268	13,548	720	105	2,395	1,823	572
Idaho	16,907	16,000	17,870	16,106	1,764	15,484	14,287	1,197	103	2,283	1,716	567
Wyoming	5,607	5,171	6,216	5,655	561	4,929	4,666	263	104	1,183	885	298
Colorado	54,071	51,761	56,265	44,957	11,308	46,041	37,961	8,080	203	10,021	6,793	3,228
New Mexico	7,590	6,707	6,914	6,233	681	5,769	5,368	401	51	1,094	814	280
Arizona	14,188	13,395	13,186	11,993	1,193	10,222	9,731	491	150	2,814	2,112	702
Utah	24,516	23,566	26,744	20,758	5,986	22,022	17,148	4,874	18	4,704	3,593	1,111
Nevada	2,667	2,450	2,585	2,353	232	2,006	1,904	102	30	549	419	130
Pacific	913,787	881,021	922,432	724,507	197,925	752,713	602,737	149,977	2,388	167,330	119,399	47,931
Washington	144,324	138,838	143,377	120,393	22,984	122,676	105,642	17,034	310	20,391	14,443	5,948
Oregon	105,591	100,886	105,410	89,314	16,096	92,164	79,799	12,365	518	12,728	8,997	3,731
California	663,872	641,297	673,645	514,800	158,845	537,874	417,296	120,578	1,560	134,211	95,959	38,252
STANDARD METROPOLITAN AREAS [2]												
Akron	94,011	93,502	91,719	76,201	15,518	73,488	62,733	10,755	664	17,567	12,810	4,757
Albany-Schenectady-Troy	70,839	70,043	50,486	36,628	13,858	38,422	28,423	9,999	30	12,034	8,175	3,859
Allentown-Bethlehem-Easton	88,539	87,529	88,552	59,527	29,025	76,236	50,629	25,607	70	12,246	8,840	3,406
Atlanta	49,034	47,667	48,876	33,926	14,950	40,280	27,411	12,869	68	8,528	6,447	2,081
Baltimore	170,062	167,339	167,502	127,355	40,147	136,481	104,535	31,946	250	30,771	22,572	8,199
Birmingham	53,295	52,590	53,227	48,022	5,205	44,514	41,110	3,404	1,095	7,618	5,818	1,800
Boston	271,273	264,591	263,282	175,710	87,572	207,675	140,029	67,646	91	55,516	35,592	19,924
Bridgeport	70,127	69,429	69,639	47,838	21,801	55,638	38,811	16,827	2	13,999	9,025	4,974
Buffalo	183,876	182,490	184,245	149,927	34,318	149,758	125,487	24,271	597	33,890	23,843	10,047
Canton	55,564	59,192	54,975	47,084	7,891	46,964	41,215	5,749	251	7,760	5,625	2,135

See footnotes at end of table.

TABLE 3.—NUMBER OF EMPLOYEES BY FUNCTIONAL CLASS AND SEX, FOR DIVISIONS, STATES, AND STANDARD METROPOLITAN AREAS: PAY ROLL PERIOD ENDED NEAREST OCTOBER 15, 1947—Continued

DIVISION, STATE, AND AREA	Average for the year		Pay roll period ended nearest October 15, 1947									
	All employees		All employees			Production and related workers			Force-account construction workers	Administrative, supervisory, sales, technical, office, and all other personnel		
	All establishments	Establishments reporting detailed employment figures	Total	Male [1]	Female [1]	Total	Male	Female		Total	Male	Female
STANDARD METROPOLITAN AREAS [2]—Continued												
Chicago	945,326	927,032	941,746	683,172	258,574	752,029	556,883	195,146	2,393	187,324	123,900	63,424
Cincinnati	135,774	134,374	134,812	99,591	35,221	107,426	81,487	25,939	72	27,314	18,032	9,282
Cleveland	268,750	265,874	266,699	208,042	58,657	216,435	173,779	42,656	154	50,110	34,109	16,001
Columbus (Ohio)	54,877	54,171	54,987	42,291	12,696	42,538	33,542	8,996	5	12,444	8,744	3,700
Dayton	95,367	94,684	96,437	75,910	20,527	80,208	64,897	15,311	53	16,176	10,961	5,215
Detroit	555,738	549,592	548,167	470,645	77,522	461,033	405,422	55,611	942	86,192	64,286	21,906
Erie	46,235	46,020	47,225	36,203	11,022	38,896	30,659	8,237	25	8,304	5,519	2,785
Fall River-New Bedford	62,572	61,815	62,560	34,109	28,451	57,422	30,909	26,513	30	5,108	3,170	1,938
Flint	55,159	54,842	54,439	47,655	6,784	47,304	42,394	4,910	1	7,134	5,260	1,874
Grand Rapids	49,241	48,526	47,475	36,722	10,753	40,180	31,609	8,571	15	7,280	5,101	2,179
Hartford	63,792	63,257	62,384	46,418	15,966	50,850	38,701	12,149	17	11,517	7,700	3,817
Houston	58,606	57,446	58,981	50,591	8,390	46,044	40,546	5,498	554	12,383	9,494	2,889
Indianapolis	92,649	90,869	94,112	71,374	22,738	74,319	57,096	17,223	39	19,754	14,239	5,515
Kansas City	78,645	77,008	78,708	58,894	19,814	61,667	47,197	14,470	120	16,921	11,578	5,343
Los Angeles	358,772	346,688	356,117	263,913	92,204	279,310	209,310	70,000	622	76,185	53,987	22,198
Louisville	73,791	73,061	71,975	55,008	16,967	58,807	45,373	13,434	336	12,832	9,308	3,524
Milwaukee	177,202	175,311	177,202	137,621	39,581	141,941	113,931	28,010	225	35,036	23,504	11,532
Minneapolis-St. Paul	118,824	116,536	116,998	83,902	33,096	91,946	66,942	25,004	43	25,009	16,917	8,092
New Britain-Bristol	45,708	45,432	42,255	30,432	11,823	35,339	26,254	9,085	12	6,904	4,166	2,738
New Haven	41,503	40,882	39,293	26,023	13,270	32,323	21,744	10,579	45	6,925	4,234	2,691
New Orleans	45,363	44,331	45,285	32,608	12,677	37,786	26,922	10,864	103	7,396	5,583	1,813
New York-Northeastern New Jersey	1,604,184	1,549,536	1,618,111	1,008,169	609,942	1,285,994	797,554	488,440	1,387	330,730	209,415	121,315
Peoria	42,511	42,215	42,974	34,614	8,360	34,983	29,360	5,623	76	7,915	5,178	2,737
Philadelphia	532,491	523,707	534,593	375,068	159,525	439,994	310,622	129,372	852	93,747	63,599	30,148
Pittsburgh	337,974	336,353	339,013	298,345	40,668	284,256	257,905	26,351	1,262	53,495	39,184	14,311
Portland (Oreg.)	51,643	49,651	44,177	34,754	9,423	36,320	29,189	7,131	70	7,787	5,495	2,292
Providence	152,845	150,011	154,714	92,414	62,300	134,284	80,025	54,259	123	20,307	12,274	8,033
Reading	53,423	52,791	53,560	34,808	18,752	47,045	30,359	16,686	103	6,412	4,346	2,066
Rochester	104,997	104,155	103,814	71,000	32,814	79,792	54,328	25,464	968	23,054	15,704	7,350
St. Louis	244,516	241,794	243,583	177,191	66,392	198,738	146,213	52,525	835	44,010	30,143	13,867
San Francisco-Oakland	163,641	158,728	162,328	126,129	36,199	129,421	103,107	26,314	129	32,778	22,900	9,878
Seattle	54,770	53,373	52,776	43,328	9,448	42,987	36,586	6,401	69	9,720	6,673	3,047
South Bend	44,139	43,780	44,212	35,841	8,371	37,372	31,371	6,001	2	6,838	4,468	2,370
Springfield-Holyoke	81,598	80,557	79,797	55,847	23,950	65,468	46,749	18,719	51	14,278	9,047	5,231
Syracuse	54,653	54,178	54,251	40,500	13,751	43,010	32,889	10,121	663	10,578	6,948	3,630
Toledo	69,599	69,065	68,806	54,516	14,290	55,628	45,238	10,390	15	13,163	9,263	3,900
Trenton	40,422	39,962	40,938	28,665	12,273	34,462	24,086	10,376	93	6,383	4,487	1,896
Utica-Rome	50,563	50,100	49,958	34,590	15,368	43,225	30,340	12,885	9	6,724	4,241	2,483
Waterbury	43,388	43,090	37,236	26,787	10,449	30,785	22,362	8,423	18	6,433	4,421	2,012
Wheeling-Steubenville	51,751	51,464	52,141	42,907	9,234	46,773	38,662	8,111	97	5,271	4,148	1,123
Worcester	53,251	52,667	52,459	38,798	13,661	42,560	32,350	10,210	19	9,880	6,430	3,450
York	41,932	41,552	41,265	27,382	13,883	35,040	23,191	11,849	9	6,216	4,183	2,033
Youngstown	108,654	108,227	110,227	96,991	13,236	95,614	86,192	9,422	90	14,523	10,709	3,814

[1] Includes figures for force-account construction workers, not shown separately by sex.
[2] Only standard metropolitan areas with 40,000 or more manufacturing employees in 1947 are included in this table.

TABLE 4.—EMPLOYMENT, PAY ROLLS, AND MAN-HOURS,

[Money figures and man-hours in thousands. For explanation of column captions, see GENERAL EXPLANATIONS. All establishments reporting on short forms, except each quarter. In the case of establishments in the "Printing and publishing" industries using the short form, employment was estimated for the eight months not is shown in this table provided by the second and eighth columns of the table, average number of employees for all establishments and average number of employees

No.	Industry and industry group: Title	All establishments: Number of establishments	All employees: Number (average for the year)	All employees: Salaries and wages, total	Production and related workers: Number (average for the year) 1939	Production and related workers: Number (average for the year) 1947	Production and related workers: Man-hours, total	Production and related workers: Wages, total
	All industries, total	**240,881**	**14,294,304**	**$39,689,527**	**7,808,205**	**11,916,188**	**24,303,234**	**$30,242,343**
	INDUSTRY GROUPS							
20	Food and kindred products	39,933	1,441,847	3,789,387	802,133	1,099,478	2,368,225	2,572,190
21	Tobacco manufactures	1,086	111,782	205,838	87,525	103,289	198,323	175,318
22	Textile mill products	8,185	1,233,431	2,836,166	1,081,710	1,147,194	2,308,237	2,449,312
23	Apparel and related products	30,960	1,081,844	2,527,499	752,829	972,897	1,811,042	2,015,220
24	Lumber and products, except furniture	26,231	635,708	1,337,612	422,947	596,118	1,243,645	1,179,981
25	Furniture and fixtures	7,687	322,384	824,061	189,382	282,780	593,967	653,915
26	Paper and allied products	4,103	449,833	1,280,672	270,239	388,901	851,481	1,010,972
27	Printing and publishing industries	28,986	715,450	2,277,263	324,371	438,135	888,714	1,318,285
28	Chemicals and allied products	10,073	632,319	1,910,463	275,669	466,458	977,233	1,242,628
29	Petroleum and coal products	1,387	212,003	739,345	107,695	169,610	354,347	556,365
30	Rubber products	875	259,092	783,464	120,740	214,533	425,080	614,762
31	Leather and leather products	5,308	383,175	873,566	327,189	348,529	676,774	725,143
32	Stone, clay, and glass products	11,650	462,072	1,210,768	267,094	405,755	840,213	994,884
33	Primary metal industries	5,363	1,157,124	3,594,548	672,438	1,010,055	2,049,668	2,976,507
34	Fabricated metal industries	16,734	971,461	2,832,835	451,087	822,514	1,692,863	2,188,581
35	Machinery (except electrical)	17,906	1,545,323	4,804,503	536,082	1,244,135	2,580,730	3,592,771
36	Electrical machinery	3,973	801,359	2,271,039	247,930	639,147	1,287,236	1,647,401
37	Transportation equipment	3,711	1,181,680	3,719,583	544,553	987,142	1,972,971	2,939,815
38	Instruments and related products	2,599	231,997	665,347	84,867	181,939	368,028	467,785
39	Miscellaneous manufactures	14,131	464,420	1,205,508	241,725	397,579	814,457	920,508
	INDUSTRIES							
20	**Food and kindred products**	**39,933**	**1,441,847**	**3,789,387**	**802,133**	**1,099,478**	**2,368,225**	**2,572,190**
201	Meat products	3,974	274,441	781,940	146,624	220,732	488,569	584,566
2011	Meat packing, wholesale	2,153	208,369	622,770	115,046	167,072	375,835	468,743
2013	Prepared meats	1,264	44,379	122,742	17,624	34,473	73,899	86,570
2015	Poultry dressing, wholesale	557	21,693	36,428	13,954	19,187	38,835	29,253
202	Dairy products	5,423	92,693	225,312	50,488	69,074	160,137	155,841
2021	Creamery butter	1,633	20,564	44,373	17,953	15,242	35,295	31,883
2022	Natural cheese	1,711	12,320	27,597	5,009	10,535	24,975	23,024
2023	Concentrated milk	428	16,635	42,870	9,705	13,982	33,711	34,838
2024	Ice cream and ices	1,521	35,807	92,000	15,443	23,196	52,779	52,222
2025	Special dairy products	130	7,367	18,472	2,378	6,119	13,377	13,874
203	Canning, preserving, and freezing	3,826	201,627	418,669	135,087	181,004	352,504	339,224
2031	Canned sea food	254	20,153	37,207	15,735	18,929	30,147	31,755
2032	Cured fish	127	2,431	5,111	1,893	2,143	3,739	3,763
2033	Canning and preserving, except fish	2,265	135,974	288,443	93,603	121,916	243,424	234,886
2034	Dehydrated fruits and vegetables	146	3,976	8,145	8,058	3,662	7,318	6,834
2035	Pickles and sauces	743	21,730	48,221	12,464	18,584	38,880	36,153
2037	Frozen foods	291	17,363	31,542	3,334	15,770	28,946	25,833
204	Grain-mill products	4,206	113,217	311,736	50,682	86,063	199,048	216,229
2041	Flour and meal	1,243	39,458	118,940	24,771	30,722	74,412	85,680
2042	Prepared animal feeds	2,689	55,347	143,301	15,401	40,266	92,751	93,579
2043	Cereal preparations	64	11,276	30,689	7,458	9,496	19,540	25,160
2044	Rice cleaning and polishing	88	4,072	9,999	2,346	3,267	7,788	6,700
2045	Blended and prepared flour	122	3,064	8,807	706	2,312	4,557	5,110
205	Bakery products	7,123	279,368	763,222	209,375	187,581	403,777	428,676
2051	Bread and other bakery products	6,797	233,310	653,999	180,202	150,055	325,580	350,315
2052	Biscuit, crackers, and pretzels	326	46,058	109,223	29,173	37,526	78,197	78,361
206	Sugar	181	35,423	91,291	28,760	30,749	69,226	75,529
2061	Raw cane sugar	82	4,635	8,550	4,217	4,022	10,217	6,597
2062	Cane-sugar refining	25	17,376	47,172	14,133	15,093	33,074	38,974
2063	Beet sugar	74	13,412	35,569	10,410	11,634	25,935	29,958
207	Confectionery and related products	1,754	91,710	214,558	58,831	78,063	158,210	155,666
2071	Confectionery products	1,686	75,165	167,886	49,740	64,883	130,694	123,046
2072	Chocolate and cocoa products	31	9,605	27,480	6,464	7,708	15,933	19,174
2073	Chewing gum	37	6,940	19,192	2,627	5,472	11,583	13,446
208	Beverages	6,755	202,574	600,634	67,777	138,515	301,080	376,732
2081	Bottled soft drinks	5,618	79,397	196,285	21,265	41,214	90,882	84,102
2082	Malt liquors	440	82,534	292,405	36,088	63,668	142,001	210,228
2083	Malt	53	2,524	9,550	1,459	2,069	4,466	6,896
2084	Wines and brandy	418	7,697	21,896	2,337	5,824	11,717	13,681
2085	Distilled liquors, except brandy	226	30,422	80,498	6,628	25,740	52,014	61,825
209	Miscellaneous food preparations	6,691	150,794	382,025	54,509	107,697	235,674	239,727
2091	Leavening compounds	48	3,066	8,944	2,334	2,364	4,902	6,804
2092	Shortening and cooking oils	100	8,003	24,550	4,913	5,931	12,267	16,298
2093	Oleomargarine	27	2,567	8,337	984	1,806	4,012	5,279
2094	Corn products	55	12,324	41,115	6,764	10,158	23,032	32,688
2095	Flavorings	606	11,726	37,149	3,589	7,242	14,626	17,720
2096	Vinegar and cider	118	987	2,094	1,059	828	1,734	1,579
2097	Manufactured ice	3,432	46,462	103,038	15,912	29,048	70,741	63,026
2098	Macaroni and spaghetti	226	8,043	18,763	6,013	6,628	14,171	13,134
2099	Liquid, frozen, and dried eggs	154	9,800	16,570	1,388	8,700	17,319	13,284
	Food preparations, n.e.c.	1,925	47,816	121,465	11,553	34,992	72,870	69,915
21	**Tobacco manufactures**	**1,086**	**111,782**	**205,838**	**87,525**	**103,289**	**198,323**	**175,318**
2111	Cigarettes	28	27,674	63,204	27,426	25,553	49,196	54,986
2121	Cigars	822	47,068	76,344	50,897	44,512	84,008	68,402
2131	Chewing and smoking tobacco	73	11,139	22,676	9,202	9,725	19,630	17,616
2141	Tobacco stemming and redrying	163	25,901	43,614	----------	23,499	45,489	34,314

See footnotes at end of table.

FOR INDUSTRY GROUPS AND FOR INDUSTRIES: 1947

those classified in the "Sawmills and planing mills, general" and "Shingle mills" industries, were required to report employment data only for the middle month of covered on the form, since employment is generally stable in these industries. A measure of the importance of the establishments for which employment by months for those reporting employment by month, respectively. In the case of man-hours, estimates were made for all establishments reporting on short forms]

Establishments reporting employment by month													
Number of employees													No.
Average for the year [1]	January	February	March	April	May	June	July	August	September	October	November	December	
14,087,853	**13,998,326**	**14,063,950**	**14,078,499**	**13,968,667**	**13,801,703**	**13,842,682**	**13,750,662**	**14,107,473**	**14,287,206**	**14,358,367**	**14,359,240**	**14,358,991**	
1,403,737	1,310,553	1,274,918	1,275,555	1,289,003	1,314,417	1,367,185	1,467,942	1,577,410	1,610,327	1,498,954	1,446,948	1,401,395	20
111,238	124,574	121,077	107,826	98,109	92,629	95,634	94,893	110,516	124,250	124,903	120,316	119,888	21
1,229,865	1,258,894	1,258,972	1,251,412	1,231,061	1,204,358	1,186,840	1,168,413	1,191,216	1,214,083	1,244,936	1,263,555	1,280,116	22
1,045,221	1,020,191	1,045,254	1,048,018	1,007,209	982,628	981,670	978,740	1,052,892	1,084,698	1,121,354	1,104,268	1,104,046	23
626,250	594,731	602,746	614,311	625,004	630,919	631,852	634,325	641,675	638,555	639,049	630,445	621,446	24
310,548	306,356	307,639	307,172	302,355	299,026	300,768	296,884	305,397	312,632	323,627	320,484	332,743	25
449,833	450,692	450,889	451,211	448,968	447,095	446,099	437,166	445,801	448,714	453,315	456,694	459,564	26
710,567	694,718	697,640	700,402	704,335	704,576	705,665	705,932	707,655	711,961	725,413	729,868	730,931	27
626,490	626,774	631,994	633,142	629,119	622,234	609,825	614,630	618,628	625,824	634,774	634,265	633,107	28
212,003	205,719	206,109	206,881	206,412	209,434	213,890	215,229	217,250	216,156	216,176	215,093	215,104	29
258,260	272,581	271,622	269,526	266,172	256,381	252,104	243,319	247,729	250,003	254,815	256,480	258,024	30
377,386	370,099	375,951	379,212	369,966	356,719	355,057	363,577	379,968	387,762	396,613	397,762	394,611	31
454,474	447,288	446,147	449,074	455,198	452,385	453,251	446,741	456,550	458,401	461,898	461,998	460,442	32
1,152,901	1,157,417	1,160,689	1,164,338	1,159,543	1,154,378	1,161,576	1,136,596	1,148,428	1,144,453	1,148,303	1,145,337	1,151,273	33
947,040	951,126	953,750	957,102	948,740	933,409	929,095	918,074	935,726	948,686	957,138	961,444	967,156	34
1,524,616	1,511,559	1,528,594	1,535,500	1,540,270	1,533,875	1,527,079	1,498,187	1,511,316	1,514,049	1,521,956	1,525,469	1,539,061	35
798,915	828,938	833,261	830,176	793,227	775,589	786,967	766,392	771,873	783,994	798,909	809,123	866,901	36
1,177,578	1,190,079	1,218,090	1,217,055	1,223,799	1,174,653	1,191,529	1,127,381	1,132,748	1,141,406	1,142,230	1,172,660	1,197,957	37
228,821	233,328	234,074	233,983	232,444	231,469	228,876	224,704	225,258	224,966	225,999	225,399	225,144	38
442,110	442,709	444,534	446,603	437,733	425,529	417,720	411,537	429,437	445,686	468,005	472,632	460,082	39
1,403,737	**1,310,553**	**1,274,918**	**1,275,555**	**1,289,003**	**1,314,417**	**1,367,185**	**1,467,942**	**1,577,410**	**1,610,327**	**1,498,954**	**1,446,948**	**1,401,395**	20
270,143	266,278	260,021	255,101	253,212	259,535	265,587	269,596	271,671	272,380	279,898	290,636	295,918	201
204,825	205,785	201,498	196,744	192,950	197,610	202,035	203,842	204,747	204,149	208,563	216,090	222,905	2011
43,625	42,725	41,552	41,110	40,929	41,824	42,391	43,972	45,029	45,116	45,687	46,033	46,568	2013
21,693	17,768	16,971	17,247	19,333	20,101	21,161	21,782	21,895	23,115	25,648	28,513	26,445	2015
89,493	79,536	80,834	84,137	89,340	94,729	100,678	100,998	98,769	93,886	87,480	82,815	79,168	202
20,096	18,593	18,781	19,193	20,029	20,921	21,851	21,541	21,210	20,413	19,936	19,398	18,700	2021
11,582	10,249	10,490	11,052	11,781	12,535	13,197	13,121	12,648	11,879	11,275	10,468	9,961	2022
16,635	15,294	15,606	16,276	17,137	17,823	18,462	18,329	17,683	16,771	16,089	15,345	14,644	2023
33,813	28,214	28,751	30,069	32,842	36,143	39,433	40,359	39,613	37,485	32,960	30,559	28,871	2024
7,367	7,186	7,206	7,547	7,551	7,307	7,735	7,648	7,615	7,338	7,220	7,045	6,992	2025
198,910	153,772	135,863	130,776	133,748	141,874	168,830	251,764	342,532	369,312	232,333	174,864	153,515	203
20,153	15,747	13,886	15,008	15,579	16,871	15,865	20,202	27,362	27,815	27,559	24,751	22,019	2031
2,431	2,420	2,269	2,279	2,242	2,348	2,281	2,122	2,420	2,649	2,754	2,549	2,781	2032
134,091	100,787	88,862	83,225	85,822	85,075	104,722	177,901	252,587	274,920	154,356	106,037	93,908	2033
3,976	4,079	3,183	3,042	2,486	2,780	2,352	2,934	5,322	6,313	6,033	5,118	3,970	2034
20,896	18,213	17,315	17,238	17,080	17,574	19,397	22,181	25,068	33,271	25,475	22,126	18,430	2035
17,363	12,526	10,348	9,984	10,539	17,226	24,213	26,424	29,773	24,344	16,156	14,283	12,407	2037
110,373	107,903	107,048	107,612	106,745	106,781	109,796	112,117	113,418	113,867	114,752	112,949	109,979	204
38,508	37,882	37,720	37,833	37,706	37,186	37,697	38,900	39,556	38,521	39,651	39,573	39,259	2041
53,453	50,966	50,806	51,860	51,356	53,211	55,754	56,527	55,894	55,168	54,124	52,862	52,118	2042
11,276	11,421	11,198	11,099	11,555	10,791	10,833	11,164	11,954	12,158	11,466	11,230	10,451	2043
4,072	4,256	4,204	3,738	3,280	2,839	2,718	2,713	3,202	4,685	6,191	5,893	4,759	2044
3,064	3,378	3,120	3,082	2,848	2,754	2,794	2,813	2,812	3,035	3,320	3,391	3,392	2045
270,181	264,531	262,542	265,308	267,300	268,966	271,149	271,174	270,606	272,698	276,723	275,972	273,822	205
224,123	218,515	218,510	220,616	222,458	225,581	226,740	225,643	224,708	225,754	227,207	226,243	226,157	2051
46,058	46,016	44,032	44,692	44,842	43,385	44,409	45,531	45,898	46,944	49,516	49,729	47,665	2052
35,423	31,814	25,281	25,683	26,667	28,248	29,478	30,836	33,354	34,970	52,015	57,080	49,558	206
4,635	3,836	2,917	2,973	3,046	2,900	2,903	3,111	3,376	3,405	5,839	10,705	10,544	2061
17,376	15,950	15,212	16,222	16,543	17,741	18,245	18,434	18,439	18,373	17,723	17,936	17,280	2062
13,412	12,028	7,152	6,488	6,678	7,607	8,330	9,291	11,539	13,192	28,453	28,439	21,734	2063
89,372	86,865	85,113	86,007	84,853	82,060	79,082	77,663	83,320	91,092	102,368	106,290	106,345	207
72,827	71,862	69,867	70,519	69,260	66,361	63,452	61,827	66,454	73,309	83,656	87,671	88,285	2071
9,605	9,284	9,323	9,256	9,255	9,121	9,132	9,104	9,511	10,059	10,367	10,378	10,421	2072
6,940	5,719	5,923	6,232	6,338	6,578	6,498	6,732	7,355	7,634	8,345	8,241	7,639	2073
196,407	184,315	181,527	182,675	185,085	186,588	192,701	202,183	212,070	213,190	210,228	206,151	198,011	208
73,907	61,779	61,554	62,828	66,406	69,422	75,258	81,800	88,134	86,657	80,219	76,806	74,120	2081
82,534	77,160	76,626	77,278	78,580	80,384	84,259	87,074	89,053	88,802	86,445	84,083	80,451	2082
2,524	2,450	2,471	2,497	2,517	2,508	2,556	2,475	2,538	2,552	2,562	2,504	2,579	2083
7,273	8,346	7,586	7,602	7,125	6,646	6,277	6,246	6,534	7,731	8,093	7,836	7,227	2084
30,169	34,580	33,290	32,470	30,457	27,628	24,351	24,588	25,811	27,448	32,909	34,862	33,634	2085
143,435	135,539	136,689	138,256	142,053	145,636	149,884	151,611	151,670	148,932	143,157	140,191	135,079	209
3,066	3,150	3,155	3,250	3,159	3,152	3,049	2,960	3,027	3,030	2,943	2,986	2,950	2091
8,003	8,365	8,343	8,318	7,931	7,510	7,391	7,540	7,718	7,743	8,055	8,404	8,633	2092
2,567	2,390	2,517	2,576	2,487	2,306	2,360	2,492	2,653	2,630	2,737	2,822	2,838	2093
12,324	12,194	12,329	12,314	12,413	12,352	12,415	12,378	12,424	12,312	12,260	12,199	12,300	2094
11,194	10,956	10,796	10,809	10,784	11,127	11,179	11,206	11,595	11,605	11,715	11,394	10,872	2095
987	856	814	783	755	751	827	1,005	1,098	1,136	1,369	1,363	991	2096
42,145	34,659	34,400	35,061	38,539	43,327	48,967	51,900	52,645	49,352	42,566	37,866	34,964	2097
8,043	8,705	8,697	8,518	8,090	7,256	7,128	7,082	7,474	7,911	8,444	8,672	8,416	2098
9,800	8,384	10,340	11,878	13,173	14,020	12,715	10,400	8,051	7,512	6,680	7,448	6,929	2099
45,306	45,880	45,298	44,749	44,722	43,835	43,853	44,588	44,985	45,701	46,388	47,037	46,186	
111,238	**124,574**	**121,077**	**107,826**	**98,109**	**92,629**	**95,634**	**94,893**	**110,516**	**124,250**	**124,903**	**120,316**	**119,888**	21
27,674	28,540	29,224	27,468	27,241	24,908	27,966	27,349	27,739	27,436	27,911	28,203	28,041	2111
46,524	49,921	50,388	47,611	43,227	42,767	43,437	43,311	45,546	46,662	48,645	49,254	47,369	2121
11,139	12,005	11,879	11,421	10,793	9,323	10,818	10,915	11,129	11,194	11,480	11,410	11,334	2131
25,901	34,108	29,586	21,326	16,848	15,631	13,413	13,318	26,102	38,958	36,867	31,359	33,144	214

TABLE 4.—EMPLOYMENT, PAY ROLLS, AND MAN-HOURS,

No.	Title	All establishments: Number of establishments	All employees: Number (average for the year)	All employees: Salaries and wages, total	Production and related workers: Number (average for the year) 1939	Production and related workers: Number (average for the year) 1947	Production and related workers: Man-hours, total	Production and related workers: Wages, total
22	**Textile mill products**	8,185	1,233,431	$2,836,166	1,081,710	1,147,194	2,308,237	$2,449,312
221	Woolen and worsted manufactures	828	180,054	457,055	149,976	166,947	336,436	394,655
2211	Scouring and combing plants	74	8,726	26,475	6,731	7,912	17,600	21,202
2212	Yarn mills, wool, except carpet	200	33,178	75,380	22,764	31,463	61,857	66,443
2213	Woolen and worsted fabrics	495	132,348	338,928	116,660	122,432	245,468	293,962
2216	Finishing wool textiles	59	5,802	16,272	3,821	5,140	11,511	13,048
222	Yarn and thread mills, except wool	658	123,599	241,717	105,508	117,356	230,049	215,171
2222	Yarn throwing mills	122	14,866	28,401	25,740	13,800	26,871	24,323
2223	Thread mills	89	14,652	33,240	14,382	13,126	26,494	26,930
2224	Yarn mills, cotton system	404	92,280	176,152	62,511	88,839	173,427	160,767
2225	Yarn mills, silk system	43	1,801	3,924	2,875	1,591	3,257	3,151
223	Cotton and rayon broad-woven fabrics	1,100	455,009	996,604	398,487	433,534	881,977	904,862
2233	Cotton broad-woven fabrics	602	357,361	764,532	318,892	342,360	687,322	699,871
2234	Rayon and related broad-woven fabrics	507	97,648	232,072	79,595	91,174	194,655	204,991
2241	Narrow fabric mills	470	27,662	63,861	24,591	24,917	49,841	51,604
225	Knitting mills	3,126	230,527	492,718	236,628	212,962	410,496	414,036
2251	Full-fashioned hosiery mills	738	70,034	178,062	97,200	65,148	125,719	156,320
2252	Seamless hosiery mills	617	64,808	105,626	61,852	61,343	114,446	91,858
2253	Knit outerwear mills	1,201	34,760	80,988	23,437	30,596	58,144	59,876
2254	Knit underwear mills	172	40,579	80,520	37,478	37,546	74,111	67,990
2255	Knit glove mills	46	5,212	9,222	5,574	4,955	9,303	8,203
2256	Knit-fabric mills	308	14,158	36,087	9,548	12,502	27,005	28,051
2259	Knitting mills, n.e.c.	44	976	2,213	1,539	872	1,768	1,738
2261	Finishing textiles, except wool	641	77,985	218,933	60,237	69,035	148,266	176,094
227	Carpets and rugs	296	57,211	157,917	38,892	50,883	107,297	131,340
2271	Wool carpets, rugs, and carpet yarn	95	40,096	111,558	28,727	35,560	74,203	92,656
2273	Carpets and rugs, n.e.c.	182	7,055	14,378	3,137	6,444	12,827	11,556
2274	Hard-surface floor coverings	19	10,060	31,981	7,028	8,879	20,267	27,128
228	Hats (except cloth and millinery)	271	21,428	55,159	23,639	18,864	35,493	43,362
2281	Fur-felt hats and hat bodies	136	13,034	36,433	14,515	11,495	21,322	28,554
2282	Wool-felt hats and hat bodies	49	4,467	9,394	4,572	3,967	7,287	7,564
2283	Straw hats	40	2,438	5,387	2,659	2,057	4,156	4,113
2284	Hatters' fur	46	1,489	3,945	1,893	1,345	2,728	3,131
229	Miscellaneous textile goods	777	59,956	152,202	43,752	52,696	108,382	118,188
2291	Felt goods, n.e.c.	46	4,737	14,177	3,346	4,167	8,777	11,109
2292	Lace goods	96	8,580	21,346	7,254	7,856	15,403	17,745
2293	Paddings and upholstery filling	138	8,243	21,296	4,505	7,378	15,404	17,018
2294	Processed textile waste	179	5,805	12,894	4,844	5,149	10,982	9,822
2295	Coated fabrics, except rubberized	110	8,698	27,596	5,895	6,948	15,005	19,219
2297	Jute (except felt), and linen goods	35	5,290	12,140	5,321	4,815	10,077	9,942
2298	Cordage and twine	148	15,950	36,228	12,587	14,122	28,324	28,490
2299	Textile goods, n.e.c.	25	2,653	6,525	----------	2,261	4,410	4,843
23	**Apparel and related products**	30,960	1,081,844	2,527,499	752,829	972,897	1,811,042	2,015,220
231	Men's and boys' suits and coats	1,969	150,369	404,799	119,599	136,136	265,785	337,972
2311	Men's and boys' suits and coats	1,816	146,768	396,244	116,852	132,866	259,677	331,151
2312	Suit and coat findings	153	3,601	8,555	2,747	3,270	6,108	6,821
232	Men's and boys' furnishings	4,026	253,436	456,321	196,258	234,476	432,175	374,850
2321	Men's dress shirts and nightwear	1,065	94,308	163,945	70,453	88,172	163,188	137,653
2322	Men's and boys' underwear	103	7,269	11,330	6,543	6,929	12,326	9,847
2323	Men's and boys' neckwear	413	10,744	25,367	9,603	9,246	16,942	18,485
2325	Men's and boys' cloth hats and caps	313	5,541	12,379	3,383	5,063	9,897	10,457
2326	Hat and cap materials	70	1,111	3,002	796	943	1,790	2,100
2327	Separate trousers	976	48,300	93,639	31,327	44,939	83,265	77,370
2328	Work shirts	85	12,061	16,609	13,449	11,169	20,429	13,858
2329	Men's and boys' clothing, n.e.c.	1,001	74,102	130,050	60,704	68,015	124,338	105,082
233	Women's and misses' outerwear	10,085	313,402	846,340	208,895	279,029	504,927	671,342
2331	Blouses and waists	1,361	32,757	67,473	9,673	29,946	53,879	54,166
2333	Dresses, unit price	4,202	133,294	370,854	103,738	118,276	211,496	294,847
2334	Dresses, dozen price	917	48,692	90,494	35,794	43,837	82,013	68,658
2335	Women's suits and coats	2,477	74,306	261,425	41,032	65,397	117,911	211,245
2336	Women's skirts	493	8,312	21,270	4,421	7,434	13,203	16,841
2338	Women's neckwear and scarfs	166	2,754	6,963	1,931	2,181	4,589	3,829
2339	Women's outerwear, n.e.c.	469	13,287	27,861	9,306	11,928	21,836	21,756
234	Women's and children's undergarments	2,051	94,558	197,898	58,624	83,895	154,941	145,208
2341	Women's and children's underwear	1,516	57,306	114,543	39,859	51,997	94,360	86,181
2342	Corsets and allied garments	535	37,252	83,355	18,765	31,898	60,581	59,027
2351	Millinery	932	20,893	59,489	24,017	18,076	33,057	46,812
236	Children's outerwear	1,687	48,136	101,162	25,289	43,358	80,686	79,351
2361	Children's dresses	664	22,435	43,416	15,133	20,347	38,630	33,975
2363	Children's coats	506	12,427	33,229	3,501	10,990	20,020	25,899
2369	Children's outerwear, n.e.c.	517	13,274	24,517	6,655	12,021	22,036	19,477
2371	Fur goods	2,229	16,100	68,571	13,111	13,745	24,521	57,636
238	Miscellaneous apparel and accessories	1,727	57,229	119,519	38,222	50,972	94,655	91,548
2381	Fabric and combination dress gloves	130	5,136	8,378	3,852	4,769	8,783	6,998
2382	Fabric and combination work gloves	144	10,981	17,979	8,901	10,421	18,982	15,963
2383	Suspenders and garters	64	1,685	3,641	2,558	1,408	2,544	2,417
2384	Robes and dressing gowns	376	10,884	23,353	5,774	9,803	17,459	17,630
2385	Waterproof outer garments	247	8,283	19,561	2,412	7,339	14,367	14,991
2386	Leather and sheep-lined clothing	126	4,335	10,678	4,672	3,816	7,376	8,041
2387	Belts	396	9,162	22,016	4,222	7,573	14,338	15,889
2388	Handkerchiefs	159	4,583	9,054	4,839	4,078	7,277	6,303
2389	Apparel, n.e.c.	85	2,180	4,859	992	1,765	3,519	3,316

See footnotes at end of table.

FOR INDUSTRY GROUPS AND FOR INDUSTRIES: 1947—Continued

Establishments reporting employment by month													
Number of employees													No.
Average for the year [1]	January	February	March	April	May	June	July	August	September	October	November	December	
1,229,865	1,258,894	1,258,972	1,251,412	1,231,061	1,204,358	1,186,840	1,168,413	1,191,216	1,214,683	1,244,936	1,263,555	1,280,116	22
179,912	191,174	189,317	184,850	178,644	172,431	171,549	166,816	172,420	178,647	181,590	184,079	187,152	221
8,726	9,233	8,788	8,771	8,929	8,956	8,860	8,048	8,115	8,611	8,784	8,862	8,725	2211
33,036	36,149	35,869	35,074	33,215	31,212	29,687	28,961	30,406	32,246	33,573	34,501	35,476	2212
132,348	139,925	138,852	135,195	130,920	126,649	127,122	124,305	128,132	131,932	133,293	134,719	136,900	2213
5,802	5,867	5,808	5,810	5,580	5,614	5,880	5,502	5,767	5,858	5,940	5,997	6,051	2216
123,599	130,602	129,339	127,581	126,951	122,901	119,357	116,073	117,080	118,758	121,906	124,408	127,238	222
14,866	16,366	15,831	15,534	15,258	14,594	13,910	13,873	14,133	14,404	14,660	14,799	14,070	2222
14,652	15,462	15,561	15,566	15,344	15,108	14,786	14,181	13,984	13,709	13,675	13,911	14,507	2223
92,280	96,358	95,691	94,293	94,498	91,628	89,144	86,564	87,461	89,084	91,862	93,957	95,956	2224
1,801	2,416	2,256	2,188	1,851	1,571	1,517	1,455	1,502	1,561	1,709	1,741	1,805	2225
455,009	456,281	458,643	459,734	458,453	453,698	450,371	443,737	445,059	448,877	456,122	462,299	466,460	223
357,361	359,325	361,517	361,909	361,179	357,364	354,555	348,666	349,567	351,136	356,620	361,616	364,727	2233
97,648	96,956	97,126	97,825	97,274	96,334	95,816	95,071	95,552	97,741	99,502	100,683	101,733	2234
27,364	29,046	28,771	28,448	27,926	26,930	25,688	25,376	25,878	26,434	27,397	27,898	28,354	2241
228,169	231,601	231,820	230,850	224,864	217,148	213,207	213,438	221,807	228,078	237,876	241,997	244,193	225
69,571	70,600	70,845	70,896	70,001	67,806	66,960	66,437	67,560	68,525	70,660	71,681	72,539	2251
64,100	65,588	66,662	66,333	64,343	61,086	59,493	59,263	61,362	63,092	65,807	67,424	68,549	2252
33,573	35,955	34,927	33,366	30,755	29,112	28,316	28,989	32,169	34,982	37,704	38,428	37,819	2253
40,579	38,345	38,651	39,464	39,573	39,638	39,709	39,794	40,924	41,283	42,636	43,098	43,725	2254
5,212	5,195	5,095	5,320	5,211	5,193	5,166	4,987	5,154	5,128	5,458	5,363	5,215	2255
14,158	14,971	14,719	14,531	14,075	13,488	12,746	13,143	13,706	14,031	14,450	14,797	15,187	2256
976	947	930	940	906	825	817	825	932	1,037	1,161	1,206	1,159	2259
77,217	78,765	78,935	78,475	77,104	75,763	74,384	72,838	74,460	76,801	78,823	79,591	80,408	2261
57,211	53,801	54,427	55,215	55,688	55,771	54,029	54,120	57,031	59,306	61,222	62,256	63,491	227
40,096	37,265	37,959	38,651	39,147	39,429	39,766	39,908	40,290	40,942	41,894	42,437	43,421	2271
7,055	7,085	6,822	6,662	6,391	6,030	5,787	6,052	6,502	7,457	8,272	8,720	8,781	2273
10,060	9,451	9,646	9,902	10,150	10,312	8,476	8,160	10,239	10,907	11,056	11,099	11,289	2274
21,428	23,669	23,726	23,238	20,654	20,206	20,713	20,353	20,955	20,389	21,263	20,739	21,171	228
13,034	13,849	13,837	13,668	11,939	12,318	12,767	12,742	13,099	12,903	13,296	12,841	13,132	2281
4,407	4,922	4,990	4,696	4,266	3,969	4,250	4,337	4,765	4,564	4,548	4,216	4,076	2282
2,438	3,204	3,329	3,419	3,072	2,562	2,247	1,816	1,599	1,430	1,892	2,177	2,379	2283
1,489	1,604	1,570	1,465	1,377	1,357	1,449	1,458	1,492	1,492	1,527	1,505	1,584	2284
59,956	63,955	63,985	63,021	60,777	59,510	57,542	55,662	56,526	57,393	58,737	60,288	61,649	229
4,737	5,042	5,080	5,219	4,936	4,479	4,556	4,408	4,444	4,528	4,618	4,708	4,798	2291
8,580	8,108	8,311	8,376	8,348	8,360	8,447	8,477	8,626	8,771	8,972	9,006	9,083	2292
8,243	8,875	8,710	8,498	8,214	8,031	7,808	7,469	7,803	8,081	8,218	8,392	8,694	2293
5,805	6,571	6,405	6,277	5,846	5,625	5,314	5,304	5,444	5,498	5,575	5,773	5,902	2294
8,698	9,022	9,133	8,947	8,612	8,521	8,333	8,106	8,564	8,581	8,697	8,780	9,062	2295
5,290	6,108	6,214	6,145	5,452	5,732	5,127	4,971	4,302	4,731	4,853	4,889	4,983	2297
15,950	17,040	16,999	16,499	16,446	15,915	15,424	14,504	14,948	14,910	15,539	16,390	16,652	2298
2,653	3,189	3,133	3,060	2,923	2,797	2,533	2,423	2,395	2,293	2,265	2,350	2,475	2299
1,045,221	1,020,191	1,045,254	1,048,018	1,007,209	982,628	981,670	978,740	1,052,892	1,084,698	1,121,354	1,104,268	1,104,046	23
148,272	144,722	146,650	147,566	146,345	145,953	146,444	141,758	148,765	150,918	153,632	153,241	152,644	231
144,671	141,148	143,011	143,894	142,822	142,504	142,990	138,232	145,053	147,213	149,830	149,696	149,097	2311
3,601	3,574	3,639	3,672	3,523	3,449	3,454	3,526	3,712	3,705	3,802	3,545	3,547	2312
248,723	249,621	252,200	251,837	246,927	242,194	237,612	231,108	243,794	250,609	258,170	259,317	259,207	232
92,501	89,809	91,462	91,593	91,392	90,858	96,114	87,340	90,609	93,877	96,331	97,788	98,322	2321
7,269	7,251	7,322	7,137	7,330	7,249	7,176	6,978	6,977	7,037	7,306	7,429	7,656	2322
10,744	10,747	11,126	11,260	10,743	10,511	10,061	9,249	10,043	10,638	11,417	11,584	11,406	2323
5,541	5,325	5,401	5,453	5,643	5,582	5,555	5,447	5,668	5,705	5,840	5,402	5,334	2325
1,111	1,238	1,206	1,183	1.113	1,064	1,078	1,026	1,072	1,033	1,110	1,071	1,102	2326
47,210	47,817	48,086	48,752	47,303	46,282	45,522	44,588	46,593	47,112	48,228	47,975	47,841	2327
12,061	12,544	12,639	12,548	12,289	11,976	11,712	10,684	11,728	12,142	12,203	12,332	12,023	2328
72,286	74,890	74,958	73,911	71,114	68,672	66,394	65,796	71,164	73,065	75,735	75,736	75,523	2329
299,921	293,204	306,881	308,196	284,717	269,385	270,563	276,788	308,143	318,847	326,648	313,134	319,082	233
30,373	28,330	30,177	31,254	29,545	26,977	26,209	26,261	29,911	32,040	34,456	35,100	33,533	2331
128,089	124,541	130,949	131,166	128,797	126,718	119,673	109,948	129,073	135,515	137,679	129,924	131,012	2333
47,557	45,346	46,495	47,413	48,292	47,946	46,949	45,919	46,797	46,767	48,946	49,597	49,915	2334
71,662	73,330	76,414	75,409	56,539	48,020	57,274	74,903	80,967	81,971	80,961	74,064	80,113	2335
7,844	7,478	7,968	7,934	6,874	5,930	6,970	7,584	8,518	8,649	9,020	8,593	8,471	2336
2,754	2,607	2,678	2,708	2,533	2,321	2,258	2,239	2,560	2,859	3,336	3,475	3,370	2338
11,642	11,572	12,200	12,312	12,137	11,473	11,230	9,934	10,317	11,056	12,241	12,381	12,668	2339
92,658	87,478	88,862	89,905	88,825	88,831	89,415	87,095	91,679	94,829	100,561	102,240	101,692	234
55,889	52,146	53,174	53,803	53,148	53,415	53,878	52,505	55,669	57,538	61,288	62,229	61,410	2341
36,769	35,332	35,688	36,102	35,677	35,416	35,537	34,590	36,010	37,291	39,273	40,011	40,282	2342
19,807	20,431	22,416	22,453	19,278	17,821	17,010	18,304	20,936	20,825	21,519	17,595	18,705	2351
46,117	44,830	46,060	45,128	40,939	40,890	42,197	44,179	47,767	49,595	51,654	49,911	49,676	236
21,606	20,411	20,983	21,230	21,017	20,418	20,157	20,522	22,033	22,696	23,368	23,341	22,883	2361
12,427	12,145	12,656	11,968	8,709	9,463	11,149	12,960	14,111	14,454	14,960	13,129	13,198	2363
12,084	12,274	12,421	11,930	11,213	11,009	10,891	10,697	11,623	12,445	13,326	13,441	13,595	2369
15,105	10,603	10,136	11,391	13,634	15,109	16,057	16,685	17,280	17,405	17,908	17,277	16,884	2371
57,229	55,003	56,516	56,170	54,292	52,094	51,817	52,123	56,728	59,916	64,298	64,454	62,243	238
5,136	5,657	5,597	5,529	5,333	4,761	4,644	4,658	4,859	4,992	5,189	5,157	5,186	2381
10,981	10,394	10,624	10,788	10,885	10,841	10,925	10,814	10,847	10,824	11,261	11,572	11,795	2382
1,685	1,848	1,829	1,688	1,552	1,422	1,401	1,474	1,613	1,687	1,870	1,889	1,888	2383
10,884	9,256	10,044	10,061	9,757	9,269	9,274	9,529	10,891	12,206	13,459	13,838	12,762	2384
8,283	7,682	8,001	7,812	7,554	7,643	7,777	7,533	8,621	8,910	9,441	9,310	8,992	2385
4,335	3,839	3,772	3,810	3,686	3,703	3,795	4,111	4,601	4,950	5,507	5,304	4,835	2386
9,162	9,737	9,810	9,539	8,712	7,803	7,406	7,811	9,039	9,665	10,394	10,119	9,610	2387
4,583	4,482	4,739	4,730	4,546	4,445	4,257	4,086	4,208	4,555	4,944	5,079	4,926	2388
2,180	2,108	2,100	2,213	2,267	2,207	2,338	2,107	2,049	2,127	2,233	2,186	2,249	2389

TABLE 4.—EMPLOYMENT, PAY ROLLS, AND MAN-HOURS,

INDUSTRY AND INDUSTRY GROUP		All establishments						
			All employees		Production and related workers			
		Number of establishments	Number (average for the year)	Salaries and wages, total	Number (average for the year)		Man-hours, total	Wages, total
No.	Title				1939	1947		
23	Apparel and related products—Continued							
239	Miscellaneous fabricated textiles	6,254	127,631	$273,400	68,814	113,210	220,295	$210,501
2391	Curtains and draperies	397	7,982	17,081	7,691	6,928	13,354	11,702
2392	Housefurnishings, n.e.c.	1,233	40,220	78,790	20,096	36,384	69,594	63,053
2393	Textile bags	233	13,884	28,363	11,991	12,159	23,446	21,046
2394	Canvas products	902	10,569	24,667	3,869	8,639	17,863	17,429
2395	Tucking, pleating, and hemstitching	531	5,929	12,421	4,254	5,532	10,416	11,035
2396	Trimmings and art goods	787	15,007	33,924	5,455	13,120	25,092	25,547
2397	Schiffli-machine embroideries	546	5,678	15,054	3,750	5,080	10,458	11,681
2398	Embroideries, except Schiffli-machine	787	9,836	20,234	4,797	9,308	16,981	17,627
2399	Fabricated textile products, n.e.c.	838	18,526	42,866	6,911	16,060	33,091	31,381
24	**Lumber and products, except furniture**	26,231	635,708	1,337,612	422,947	596,118	1,213,645	1,179,981
242	Lumber and timber basic products	19,685	406,815	797,151	269,209	388,665	801,637	728,645
2421	Sawmills and planing mills, general [2]	19,223	382,902	753,878	252,036	366,119	755,568	691,094
2422	Veneer mills	156	10,461	20,441	7,784	9,722	20,648	17,248
2424	Cooperage stock mills	250	12,291	20,253	8,464	11,739	22,928	17,984
2425	Excelsior mills	56	1,161	2,579	925	1,085	2,493	2,319
243	Millwork and related products	2,681	94,275	255,366	56,434	83,214	178,336	207,733
2431	Millwork plants	2,312	57,599	156,073	41,532	50,288	106,647	125,014
2432	Plywood plants	162	26,499	71,026	13,154	24,448	54,344	61,977
2433	Prefabricated wood products	207	10,177	28,267	1,748	8,478	17,345	20,742
244	Wooden containers	1,516	69,104	139,553	57,602	64,727	136,963	121,257
2441	Fruit and vegetable baskets	141	9,105	13,398	9,093	8,781	18,080	12,093
2442	Rattan and willow ware, n.e.c.	53	1,073	2,101	1,377	983	2,047	1,776
2443	Cigar boxes	42	1,875	3,135	3,101	1,747	3,396	2,650
2444	Wooden boxes (except cigar boxes)	1,025	47,828	98,833	36,838	44,606	95,983	85,757
2445	Cooperage	255	9,223	22,086	7,193	8,610	17,457	18,981
249	Miscellaneous wood products	2,349	65,514	145,542	39,702	59,512	126,709	122,346
2491	Wood preserving	242	16,247	37,142	11,242	14,772	31,706	32,020
2492	Lasts and related products	50	1,959	5,348	1,519	1,699	3,417	4,159
2493	Mirror and picture frames	246	3,811	10,255	3,220	3,293	6,675	7,742
2499	Wood products, n.e.c.	1,811	43,497	92,797	23,721	39,748	84,911	78,425
25	**Furniture and fixtures**	7,687	322,384	821,061	189,382	282,780	593,967	653,915
251	Household furniture	4,880	228,946	559,025	143,100	204,020	427,500	450,772
2511	Wood house furniture, except upholstered	2,251	132,709	306,371	83,923	120,661	258,117	254,595
2512	Household furniture, upholstered	1,391	44,755	114,861	32,226	39,786	80,656	92,908
2513	Reed and rattan furniture	29	771	1,919	976	686	1,459	1,521
2514	Metal house furniture, except upholstered	309	19,485	51,634	7,633	16,654	34,015	39,369
2515	Mattresses and bedsprings	879	30,344	82,102	18,342	25,460	51,652	60,824
2519	Household furniture, n.e.c.	21	882	2,138	----------	773	1,601	1,555
252	Office furniture	218	21,292	59,834	11,165	17,984	37,435	47,128
2521	Wood office furniture	115	6,601	17,211	4,013	5,897	12,872	14,152
2522	Metal office furniture	103	14,691	42,623	7,152	12,087	24,563	32,976
253	Public and professional furniture	195	14,410	41,151	8,715	11,916	25,510	30,500
2531	Public-building furniture	118	8,855	24,719	5,900	7,402	15,603	18,716
2532	Professional furniture	77	5,555	16,441	2,815	4,514	9,907	11,784
2541	Partitions and fixtures	1,134	27,678	88,632	14,911	23,783	50,956	69,953
256	Screens, shades, and blinds	1,058	25,973	64,237	11,491	21,541	44,965	46,606
2561	Window and door screens	284	9,510	25,205	2,830	7,766	16,414	17,894
2562	Window shades	126	6,760	18,668	3,261	5,495	11,352	13,264
2563	Venetian blinds	648	9,703	20,364	5,400	8,280	17,199	15,448
259	Miscellaneous furniture and fixtures	202	4,085	11,182	----------	3,536	7,601	8,956
2591	Restaurant furniture	173	3,370	9,161	----------	2,880	6,198	7,273
2599	Furniture and fixtures, n.e.c.	29	715	2,021	----------	656	1,403	1,683
26	**Paper and allied products**	4,103	449,833	1,280,672	270,239	388,901	851,481	1,010,972
261	Pulp, paper, and paperboard	891	198,370	609,270	142,097	174,096	397,452	509,023
2611	Pulp mills	226	50,290	148,125	26,870	45,412	99,894	127,452
2612	Paper and board mills	665	148,080	461,145	115,227	128,684	297,558	381,571
2641	Paper coating and glazing	182	18,133	56,832	7,450	15,194	33,569	43,190
2651	Envelopes	164	13,797	39,191	8,689	11,543	24,898	27,656
2661	Paper bags	193	22,265	53,800	11,081	19,558	41,416	42,318
267	Paperboard containers and boxes	1,652	119,131	316,136	69,167	102,861	216,343	236,020
2671	Paperboard boxes	1,522	109,776	292,948	62,530	94,625	199,590	217,154
2674	Fiber cans, tubes, drums, etc.	130	9,355	23,188	6,637	8,236	16,753	18,866
269	Pulp goods and miscellaneous paper products	1,021	78,137	205,383	31,755	65,649	137,803	152,765
2691	Die-cut paper and board	205	8,488	23,200	4,354	7,032	14,771	17,039
2693	Wallpaper	58	5,462	16,287	4,054	4,771	10,696	12,222
2694	Pulp goods, pressed and molded	19	1,748	4,910	701	1,482	3,224	3,870
2699	Converted paper products, n.e.c.	739	62,439	160,986	22,646	52,364	109,112	119,634
27	**Printing and publishing industries**	28,986	715,450	2,277,263	324,371	438,135	888,714	1,318,285
2711	Newspapers	8,339	234,375	743,854	96,731	118,116	229,669	372,752
2721	Periodicals	2,166	68,823	235,508	15,411	19,346	41,814	64,314
273	Books	804	50,900	143,114	13,786	17,372	36,094	49,844
2731	Books: publishing and printing	648	39,942	104,278	6,158	8,092	16,740	20,142
2732	Book printing	156	10,958	38,836	7,628	9,280	19,354	29,702
2741	Miscellaneous publishing	611	12,036	35,200	477	3,430	6,735	8,475
2751	Commercial printing	11,932	193,415	598,702	112,389	155,987	322,609	453,516
2761	Lithographing	1,413	52,240	192,178	26,948	41,247	84,961	126,872
2771	Greeting cards	162	18,053	43,898	7,522	12,650	24,582	23,900

See footnotes at end of table.

FOR INDUSTRY GROUPS AND FOR INDUSTRIES: 1947—Continued

Establishments reporting employment by month													
Number of employees													No.
Average for the year[1]	January	February	March	April	May	June	July	August	September	October	November	December	
117,389	114,299	115,533	115,372	112,252	110,351	110,555	110,700	117,800	121,754	126,964	127,099	123,913	239
7,325	6,982	6,898	6,904	6,938	6,576	6,718	6,703	7,399	7,680	8,180	8,414	8,382	2391
38,330	37,122	36,639	36,577	36,075	35,322	35,471	35,469	37,903	40,124	42,305	43,383	43,034	2392
13,884	14,163	14,213	14,286	13,937	13,609	13,320	13,234	13,475	13,760	14,130	14,184	14,067	2393
8,732	8,348	8,594	8,794	9,323	9,655	9,696	9,243	8,540	8,132	8,220	8,101	8,075	2394
4,477	4,468	4,865	4,862	4,326	4,003	3,865	4,068	4,577	4,724	4,774	4,579	4,448	2395
13,594	13,078	13,663	13,389	12,527	12,764	12,833	12,272	13,938	14,409	15,021	14,563	14,390	2396
5,678	5,582	5,712	5,790	5,376	5,183	5,108	5,211	5,696	6,008	6,117	6,207	6,018	2397
7,602	6,871	7,178	6,985	6,254	5,997	6,544	7,538	8,561	8,970	9,387	9,072	7,666	2398
17,767	17,685	17,771	17,785	17,496	17,182	17,000	16,962	17,711	17,947	18,830	18,596	17,833	2399
626,250	**594,731**	**602,746**	**614,311**	**625,004**	**630,919**	**631,852**	**634,325**	**641,675**	**638,555**	**639,049**	**630,445**	**621,446**	24
406,815	378,165	384,908	394,640	404,343	412,291	413,133	416,103	421,825	418,804	417,703	410,114	402,114	242
382,902	352,556	359,011	368,482	378,633	386,896	388,079	392,162	398,314	396,375	396,302	388,946	381,314	2421
10,461	9,964	10,046	10,466	10,493	10,566	10,643	10,168	10,481	10,546	10,566	10,692	10,790	2422
12,291	14,537	14,694	14,493	14,026	13,612	13,196	12,587	11,863	10,723	9,633	9,273	8,808	2424
1,161	1,108	1,157	1,199	1,191	1,217	1,215	1,186	1,167	1,160	1,202	1,203	1,202	2425
89,746	86,227	85,906	86,090	87,745	87,986	89,168	89,409	91,332	91,352	92,967	93,886	93,560	243
53,235	50,396	50,627	51,162	51,365	51,992	52,373	52,943	54,490	54,383	55,623	56,277	56,660	2431
26,499	26,055	25,926	26,186	26,360	26,069	26,430	26,380	26,699	26,703	26,847	27,085	27,145	2432
10,012	9,776	9,353	9,342	10,020	9,925	10,365	10,086	10,143	10,266	10,497	10,524	9,755	2433
67,643	67,979	68,520	69,261	69,319	68,962	68,561	67,687	67,534	66,664	66,802	64,993	64,752	244
9,105	8,965	9,033	9,122	9,441	9,568	9,562	9,590	9,395	8,900	8,786	8,411	8,446	2441
1,073	1,100	1,083	1,052	1,001	983	1,010	994	989	1,112	1,190	1,209	1,187	2442
1,875	2,188	2,176	2,134	1,861	1,721	1,682	1,680	1,755	1,822	1,838	1,855	1,784	2443
46,367	45,472	45,802	46,675	47,065	46,950	46,906	46,327	46,519	46,103	46,567	45,868	45,597	2444
9,223	10,254	10,426	10,278	9,951	9,740	9,401	9,096	8,876	8,727	8,421	7,650	7,738	2445
62,046	62,360	63,412	63,720	63,597	61,680	60,990	61,126	60,984	61,735	61,577	61,452	61,020	249
16,247	15,820	15,993	16,326	16,662	16,785	17,058	16,968	16,947	16,418	15,677	15,306	14,893	2491
1,959	2,034	1,994	1,963	1,968	1,964	1,884	1,921	1,895	1,918	1,935	1,973	2,030	2492
3,434	3,646	3,651	3,576	3,484	3,198	3,011	3,073	3,177	3,395	3,691	3,726	3,521	2493
40,406	40,860	41,774	41,855	41,483	39,733	39,037	39,164	38,965	40,004	40,274	40,447	40,576	2499
310,548	**306,356**	**307,639**	**307,172**	**302,355**	**299,026**	**300,768**	**296,884**	**305,397**	**312,632**	**323,627**	**329,484**	**332,743**	25
220,503	218,151	219,268	218,610	214,095	211,078	211,100	208,919	216,309	221,501	230,726	235,703	238,706	251
127,949	125,283	126,908	126,988	125,309	124,333	124,794	122,740	126,159	128,140	132,324	134,824	136,628	2511
42,952	42,961	42,457	42,029	41,097	39,788	39,396	39,632	41,784	43,586	46,391	47,624	48,210	2512
771	785	795	825	820	800	805	741	743	731	732	736	716	2513
18,927	19,715	19,916	19,734	18,837	18,615	18,410	17,469	17,731	18,034	18,633	19,617	20,245	2514
29,022	28,335	28,270	28,037	27,064	26,676	26,876	27,626	29,084	30,204	31,753	32,016	32,093	2515
882	1,072	922	997	968	866	819	711	808	806	893	886	814	2519
21,292	21,041	21,290	21,467	21,470	20,721	21,411	20,259	20,678	21,504	21,674	21,811	21,998	252
6,601	6,491	6,521	6,557	6,570	6,595	6,564	6,322	6,582	6,554	6,643	6,858	6,865	2521
14,691	14,550	14,769	14,910	14,900	14,126	14,847	13,937	14,096	14,950	15,031	14,953	15,133	2522
14,410	14,465	14,662	14,521	14,313	14,085	14,090	13,880	14,488	14,479	14,605	14,599	14,616	253
8,855	8,988	9,075	8,922	8,828	8,686	8,670	8,448	8,945	8,946	8,908	8,853	8,896	2531
5,555	5,477	5,587	5,599	5,485	5,399	5,420	5,432	5,543	5,533	5,697	5,746	5,720	2532
25,391	24,854	24,881	25,030	24,505	24,716	25,150	25,362	25,242	25,913	26,167	26,289	26,176	2541
24,867	23,738	23,502	23,495	23,788	24,307	24,871	24,499	24,579	25,193	26,298	26,994	27,203	256
9,510	8,910	8,899	8,822	8,855	9,120	9,467	9,404	9,470	9,707	10,213	10,569	10,927	2561
6,760	6,735	6,713	6,674	6,739	6,678	6,495	6,391	6,583	6,731	7,055	7,135	7,165	2562
8,597	8,093	7,890	7,999	8,194	8,509	8,909	8,764	8,526	8,755	9,030	9,290	9,111	2563
4,085	4,107	4,036	4,049	4,094	4,119	4,146	3,965	4,101	4,042	4,157	4,088	4,044	259
3,370	3,366	3,321	3,355	3,386	3,367	3,377	3,218	3,363	3,389	3,422	3,422	3,361	2591
715	741	715	694	708	752	769	747	738	653	735	666	683	2599
449,833	**450,692**	**450,889**	**451,211**	**448,968**	**447,095**	**446,099**	**437,166**	**445,801**	**448,714**	**453,315**	**456,694**	**459,564**	26
198,370	194,145	194,772	195,182	195,191	197,705	198,586	195,888	200,135	201,034	201,469	202,122	203,668	261
50,290	48,564	49,165	49,395	49,372	49,852	50,540	50,197	51,083	51,183	51,348	51,222	51,456	2611
148,080	145,581	145,607	145,787	145,819	147,853	148,046	145,691	149,052	149,851	150,121	150,900	152,212	2612
18,133	18,235	18,210	18,258	18,191	18,130	18,166	17,710	17,949	17,936	18,032	18,270	18,444	2641
13,797	13,844	13,848	13,864	13,856	13,800	13,732	13,404	13,582	13,683	13,948	13,936	13,975	2651
22,265	23,014	22,802	22,898	22,772	21,912	21,672	20,997	21,080	21,733	22,220	22,439	22,945	2661
119,131	122,756	122,717	122,446	120,973	118,348	116,360	113,654	115,445	116,344	118,632	120,355	120,745	267
109,776	112,545	112,407	112,305	110,933	108,494	106,975	105,017	106,860	107,760	110,023	111,525	111,775	2671
9,355	10,211	10,310	10,141	10,040	9,854	9,385	8,637	8,585	8,584	8,609	8,830	8,970	2674
78,137	78,698	78,540	78,563	77,985	77,200	77,583	75,513	77,010	77,984	79,014	79,572	79,787	269
8,488	8,800	8,877	8,765	8,515	8,425	8,216	7,667	7,635	8,249	8,818	8,915	8,844	2691
5,462	5,718	5,740	5,731	5,657	5,417	5,483	4,927	5,584	5,430	5,433	5,248	5,167	2693
1,748	1,733	1,730	1,766	1,751	1,778	1,749	1,735	1,704	1,726	1,779	1,764	1,745	2694
62,439	62,447	62,193	62,301	62,062	61,580	62,135	61,184	62,087	62,579	62,984	63,645	64,031	2699
710,567	**694,718**	**697,640**	**700,402**	**704,335**	**704,576**	**705,665**	**705,932**	**707,655**	**711,961**	**725,413**	**729,868**	**730,931**	27
234,375	225,248	227,193	228,693	230,878	232,286	233,616	234,511	235,165	235,954	239,456	241,382	242,412	2711
68,823	68,634	67,959	68,165	68,176	67,949	67,711	68,175	68,167	68,622	69,817	70,408	70,914	2721
50,900	50,323	50,765	50,939	50,802	50,588	50,461	50,920	50,490	50,595	51,424	51,477	51,618	273
39,942	39,554	39,915	40,046	39,889	39,634	39,518	40,045	39,590	39,590	40,303	40,410	40,531	2731
10,958	10,769	10,850	10,893	10,913	10,954	10,943	10,875	10,900	11,005	11,121	11,067	11,087	2732
12,036	11,989	12,154	12,173	12,117	12,104	12,088	11,916	11,924	11,814	12,016	11,931	11,894	2741
189,654	186,897	187,171	187,181	188,568	188,239	188,283	188,259	188,163	189,502	193,540	194,516	195,525	2751
51,949	50,260	50,649	50,984	51,417	51,281	51,444	51,532	51,556	52,394	53,567	54,147	54,156	2761
18,053	17,762	17,704	17,606	17,313	17,317	17,621	17,423	18,011	18,346	19,245	19,510	18,664	2771

TABLE 4.—EMPLOYMENT, PAY ROLLS, AND MAN-HOU

INDUSTRY AND INDUSTRY GROUP		All establishments						
			All employees		Production and related workers			
		Number of establishments	Number (average for the year)	Salaries and wages, total	Number (average for the year)		Man-hours, total	Wag tott
No.	Title				1939	1947		
27	Printing and publishing industries—Continued							
278	Bookbinding and related industries	1,342	42,561	$107,466	25,891	36,437	73,120	$8
2781	Bookbinding	686	22,227	57,541	14,339	20,037	40,241	4
2782	Blankbook making and paper ruling	305	8,768	21,028	5,126	7,039	13,892	1
2783	Loose-leaf binders and devices	131	8,133	20,946	3,964	6,445	13,024	1
2789	Miscellaneous bookbinding work	220	3,433	7,951	2,462	2,916	5,963	
279	Printing trades service industries	2,217	43,047	177,343	25,216	33,550	69,130	13
2791	Typesetting	794	11,475	44,906	6,244	9,301	19,515	3
2792	Engraving and plate printing	416	7,688	20,998	5,353	6,463	13,196	1
2793	Photoengraving	770	16,711	80,003	9,207	12,234	24,942	5
2794	Electrotyping and stereotyping	237	7,173	31,436	4,412	5,552	11,477	2
28	**Chemicals and allied products**	10,073	632,319	1,910,463	275,669	466,458	977,233	1,24
281	Industrial inorganic chemicals	412	65,347	204,113	33,595	50,203	104,043	14
2812	Alkalies and chlorine	32	19,853	63,822	10,516	15,017	31,815	4
2819	Inorganic chemicals, n.e.c	380	45,494	140,291	23,079	35,186	72,228	101
282	Industrial organic chemicals	563	206,295	648,618	86,873	157,905	322,862	45
2821	Cyclic (coal-tar) crudes	46	1,972	5,490	1,528	1,633	3,727	4
2823	Plastics materials	125	29,337	93,410	7,191	22,212	47,116	64
2824	Synthetic rubber	20	7,663	25,774	----------	5,721	11,262	18
2825	Synthetic fibers	38	71,882	199,910	48,332	57,857	116,820	150
2826	Explosives	76	10,426	32,313	7,242	8,932	18,121	26
2829	Organic chemicals, n.e.c	258	85,015	291,721	22,580	61,550	125,816	195
283	Drugs and medicines	1,355	81,803	236,912	24,212	54,725	110,683	133
2831	Biological products	85	3,154	8,831	2,155	2,244	4,638	5
2832	Botanical products	15	709	2,042	618	506	1,060	1
2833	Medicinal chemicals	92	12,388	40,178	1,802	9,414	20,014	28
2834	Pharmaceutical preparations	1,163	65,552	185,861	19,637	42,561	84,971	98
284	Soap and related products	1,392	44,962	149,753	19,509	29,729	62,550	82
2841	Soap and glycerin	249	27,660	93,638	13,624	19,394	41,236	57
2842	Cleaning and polishing preparations	1,038	15,362	48,209	5,128	9,090	18,618	20
2843	Sulfonated oils and assistants	105	1,950	7,906	757	1,245	2,696	3,
285	Paints and allied products	1,456	67,807	224,840	27,660	45,822	97,578	124,
2851	Paints and varnishes	1,291	53,412	180,952	21,879	34,693	73,599	94,
2852	Inorganic color pigments	94	13,140	39,747	5,497	10,310	22,197	28,
2853	Whiting and fillers	71	1,255	4,141	284	819	1,782	2,
286	Gum and wood chemicals	118	8,466	20,552	6,368	7,382	15,434	16,
2861	Hardwood distillation	27	1,872	4,140	1,770	1,618	3,397	3,
2862	Softwood distillation	32	4,574	11,815	2,353	4,071	8,432	9,
2863	Gum naval stores (steam distilled)	31	638	1,385	971	512	1,185	
2865	Natural tanning and dyeing materials	28	1,382	3,212	1,274	1,181	2,420	2,
287	Fertilizers	704	31,933	71,607	18,807	26,574	56,960	52,
2871	Fertilizers	187	20,371	48,000	11,028	17,373	37,858	37,
2872	Fertilizers (mixing only)	517	11,562	23,607	7,779	9,201	19,102	15,
288	Vegetable and animal oils	1,194	43,431	117,307	27,042	35,887	85,640	86,
2881	Cottonseed oil mills	315	14,398	31,419	15,191	12,136	30,996	22,
2882	Linseed oil mills	17	1,577	4,536	2,120	1,349	2,838	3,
2883	Soybean oil mills	133	6,460	18,773	1,481	5,076	11,459	13,
2884	Vegetable oil mills, n.e.c	84	5,036	13,356	860	4,292	10,182	9,
2885	Marine animal oils	59	1,947	5,046	1,631	1,792	3,986	4,
2886	Grease and tallow	556	12,472	38,969	5,201	10,066	23,606	28,
2887	Fatty acids	16	1,335	4,433	522	1,037	2,239	3,
2889	Animal oils, n.e.c	14	206	775	36	139	334	
289	Miscellaneous chemical products	2,879	82,275	236,761	31,603	58,231	121,483	141,
2891	Printing ink	239	6,021	20,496	2,480	4,154	9,005	11,
2892	Essential oils	42	1,151	3,787	440	896	1,761	2,
2893	Toilet preparations	718	26,023	65,580	10,363	18,186	36,528	36,
2894	Glue and gelatin	72	5,372	17,133	3,039	4,317	9,700	12,
2895	Carbon black	59	3,184	10,017	1,574	2,834	6,073	8,
2896	Compressed and liquefied gases	371	8,983	25,241	3,960	6,139	13,247	16,
2897	Insecticides and fungicides	166	4,579	13,452	656	3,216	6,614	7,
2898	Salt	38	4,809	12,762	3,737	4,056	8,592	9,
2899	Chemical products, n.e.c	1,174	22,153	68,293	5,354	14,433	29,963	34,
29	**Petroleum and coal products**	1,387	212,003	739,345	107,695	169,610	354,347	556,
2911	Petroleum refining	437	145,806	535,781	72,982	113,847	237,506	396,
293	Coke and byproducts	167	38,938	119,996	21,693	34,416	69,633	101,
2931	Beehive coke ovens	78	3,100	10,251	685	2,935	5,971	9,
2932	Byproduct coke ovens	89	35,838	109,745	21,008	31,481	63,662	91,
295	Paving and roofing materials	437	19,263	58,048	10,624	15,779	35,440	44,
2951	Paving mixtures and blocks	203	2,684	8,268	2,437	1,960	4,387	5,
2952	Roofing felts and coatings	174	16,579	49,780	8,187	13,819	31,053	38,
299	Miscellaneous petroleum and coal products	346	7,996	25,520	2,396	5,568	11,768	15,
2991	Fuel briquets and packaged fuel	99	1,204	3,467	410	1,042	2,249	2,
2992	Lubricants, n.e.c	233	6,271	20,643	1,986	4,091	8,713	11,
2999	Petroleum and coal products, n.e.c	14	521	1,410	----------	435	806	1,
30	**Rubber products**	875	259,092	783,464	120,740	214,533	425,080	614,
3011	Tires and inner tubes	57	115,657	390,841	54,115	93,916	185,392	311,
3021	Rubber footwear	26	28,125	72,666	14,861	23,952	48,954	58,
3031	Reclaimed rubber	15	2,070	6,849	1,072	1,855	4,015	5,
3099	Rubber industries, n.e.c	777	113,240	313,108	50,692	94,810	186,719	239,

See footnotes at end of table.

FOR INDUSTRY GROUPS AND FOR INDUSTRIES: 1947—Continued

Establishments reporting employment by month													
Number of employees													No.
Average for the year [1]	January	February	March	April	May	June	July	August	September	October	November	December	
42,143	41,916	42,049	42,140	42,412	42,073	41,854	41,105	41,894	42,004	42,983	43,021	42,261	278
21,992	21,826	21,914	21,990	21,986	21,839	21,858	21,766	21,977	22,142	22,403	22,399	21,801	2781
8,669	8,767	8,855	8,849	8,932	8,788	8,521	8,319	8,425	8,420	8,741	8,772	8,640	2782
8,109	7,986	8,022	8,109	8,226	8,247	8,188	7,708	8,111	8,125	8,222	8,198	8,169	2783
3,373	3,337	3,258	3,192	3,268	3,199	3,287	3,312	3,381	3,317	3,617	3,652	3,651	2789
42,634	41,689	41,996	42,521	42,652	42,739	42,587	42,091	42,285	42,730	43,365	43,476	43,487	279
11,305	10,990	11,119	11,255	11,326	11,334	11,308	11,133	11,137	11,336	11,606	11,572	11,548	2791
7,560	7,503	7,529	7,599	7,604	7,674	7,542	7,377	7,424	7,475	7,596	7,686	7,716	2792
16,615	16,228	16,336	16,570	16,616	16,628	16,596	16,469	16,531	16,677	16,852	16,889	16,987	2793
7,154	6,968	7,012	7,097	7,106	7,103	7,141	7,112	7,193	7,242	7,311	7,329	7,236	2794
626,490	626,774	631,994	633,142	629,119	622,234	609,825	614,630	618,628	625,824	634,774	634,265	633,107	28
65,347	62,532	63,140	64,054	63,948	64,553	65,831	66,686	66,636	66,423	66,609	66,679	66,753	281
19,853	18,136	18,403	18,769	18,956	19,169	20,036	20,522	20,609	20,858	20,852	20,883	21,024	2812
45,494	44,396	44,737	45,285	44,992	45,384	45,795	46,164	46,027	45,565	45,817	45,796	45,729	2819
206,295	206,628	207,966	207,063	208,698	207,831	199,219	204,883	205,738	205,652	206,507	206,978	208,041	282
1,972	2,026	2,040	1,997	2,004	1,944	1,937	1,957	1,987	1,928	1,963	1,957	1,913	2821
29,337	29,748	30,111	29,835	29,487	29,356	29,097	28,451	28,705	28,900	29,069	29,473	29,800	2823
7,663	9,318	9,169	8,755	8,698	8,278	7,833	7,430	6,972	6,421	6,390	6,307	6,397	2824
71,882	72,474	72,920	72,097	72,234	72,092	64,575	71,789	72,098	72,605	73,333	73,064	73,229	2825
10,426	10,162	10,385	10,490	10,627	10,561	10,429	9,947	10,514	10,523	10,446	10,488	10,502	2826
85,015	82,900	83,341	83,889	85,648	85,600	85,348	85,309	85,462	85,275	85,306	85,689	86,200	2829
80,587	81,660	81,999	82,233	81,727	80,768	80,702	80,052	80,204	79,961	80,116	79,563	78,289	283
3,154	3,153	3,180	3,188	3,205	3,193	3,230	3,228	3,193	3,122	3,084	3,009	2,975	2831
709	810	828	824	787	733	721	675	643	604	637	612	628	2832
12,388	12,365	12,438	12,526	12,541	12,400	12,531	12,301	12,261	12,242	12,550	12,914	12,231	2833
64,336	65,332	65,553	65,695	65,194	64,442	64,220	63,848	64,107	63,993	63,845	63,028	62,455	2834
43,740	43,192	43,656	43,777	43,374	43,149	43,229	43,169	43,096	43,712	44,325	44,848	44,766	284
27,660	26,659	27,174	27,352	27,077	27,028	27,509	27,615	27,557	27,997	28,304	28,732	28,766	2841
14,130	14,595	14,518	14,442	14,340	14,181	13,800	13,637	13,600	13,781	14,082	14,166	14,044	2842
1,950	1,938	1,964	1,983	1,957	1,940	1,920	1,917	1,939	1,934	1,939	1,950	1,956	2843
67,057	65,431	66,069	66,583	66,907	67,176	67,279	67,299	67,591	67,296	67,413	67,500	67,373	285
52,662	51,309	51,903	52,402	52,553	52,727	52,765	52,744	52,980	52,831	52,981	53,123	53,006	2851
13,140	12,872	12,918	12,936	13,122	13,253	13,334	13,353	13,371	13,172	13,130	13,053	13,111	2852
1,255	1,250	1,248	1,245	1,232	1,196	1,180	1,202	1,240	1,293	1,302	1,324	1,256	2853
8,466	8,352	8,432	8,453	8,461	8,527	8,707	8,649	8,473	8,345	8,347	8,357	8,342	286
1,872	1,795	1,813	1,835	1,892	1,922	1,939	1,932	1,900	1,848	1,863	1,848	1,855	2861
4,574	4,634	4,675	4,673	4,710	4,686	4,699	4,583	4,484	4,418	4,395	4,417	4,425	2862
638	540	541	544	580	616	642	719	717	701	703	699	651	2863
1,382	1,383	1,403	1,401	1,279	1,303	1,427	1,415	1,372	1,378	1,386	1,393	1,411	2865
31,933	33,589	36,794	37,775	36,252	33,007	28,047	26,951	28,608	30,079	30,004	30,051	31,628	287
20,371	21,046	22,946	23,445	22,378	20,711	18,147	17,712	18,815	19,828	19,641	19,437	20,258	2871
11,562	12,543	13,848	14,330	13,874	12,296	9,900	9,239	9,793	10,251	10,363	10,614	11,370	2872
43,431	44,811	43,391	42,268	40,287	38,835	39,017	39,048	39,893	45,039	50,072	49,029	48,967	288
14,398	16,617	15,498	14,020	11,808	10,133	9,779	9,950	10,792	15,790	19,756	19,492	19,006	2881
1,577	1,629	1,620	1,679	1,574	1,571	1,628	1,519	1,456	1,456	1,576	1,592	1,581	2882
6,460	6,546	6,446	6,435	6,178	6,234	6,226	6,112	6,131	6,295	6,993	6,956	6,924	2883
5,030	5,230	5,261	5,233	5,359	5,106	4,684	4,699	4,284	4,595	5,167	5,249	5,532	2884
1,947	1,080	962	1,016	1,386	1,854	2,750	2,952	3,312	2,879	2,322	1,476	1,350	2885
12,472	12,101	12,008	12,305	12,376	12,363	12,448	12,392	12,445	12,523	12,724	12,725	13,014	2886
1,335	1,401	1,387	1,370	1,393	1,364	1,293	1,220	1,268	1,296	1,333	1,337	1,359	2887
206	207	209	210	213	210	209	204	205	205	201	202	201	2889
79,634	80,579	80,547	80,936	79,465	78,388	77,794	77,893	78,389	79,317	81,321	81,260	78,948	289
6,021	5,942	5,950	5,993	6,013	6,003	6,035	6,044	6,054	5,996	6,040	6,014	6,045	2891
1,151	1,126	1,146	1,166	1,161	1,195	1,181	1,146	1,103	1,116	1,187	1,139	1,138	2892
24,930	26,055	25,874	25,800	24,772	23,505	23,128	23,088	23,722	25,039	26,707	26,724	24,535	2893
5,372	5,387	5,433	5,470	5,407	5,423	5,366	5,181	5,147	5,344	5,393	5,462	5,471	2894
3,184	3,110	3,122	3,390	3,271	3,215	3,168	3,219	3,140	3,155	3,107	3,114	3,166	2895
8,983	8,802	8,841	8,858	8,930	9,059	9,041	9,157	9,170	9,019	8,959	8,955	8,951	2896
4,579	4,461	4,570	4,728	4,836	4,977	4,890	4,760	4,686	4,320	4,208	4,213	4,248	2897
4,809	4,566	4,525	4,550	4,440	4,404	4,434	4,972	5,109	5,139	5,294	5,260	5,061	2898
20,605	21,130	21,086	20,981	20,635	20,607	20,551	20,326	20,258	20,189	20,426	20,439	20,333	2899
212,003	205,719	206,109	206,881	206,412	209,434	213,890	215,229	217,250	216,156	216,176	215,093	215,104	29
145,806	141,858	142,223	142,326	141,551	143,535	147,342	148,650	149,449	148,610	148,240	147,572	148,112	2911
38,938	37,632	37,781	38,136	38,233	38,798	39,094	39,152	39,737	39,551	39,656	39,741	39,739	293
3,100	3,043	3,007	3,036	3,033	3,152	3,071	2,999	3,136	3,145	3,207	3,162	3,192	2931
35,838	34,589	34,774	35,100	35,200	35,646	36,023	36,153	36,601	36,406	36,449	36,579	36,547	2932
19,263	18,057	17,952	18,263	18,563	19,157	19,592	19,694	20,242	20,137	20,305	19,790	19,187	295
2,684	1,970	1,971	2,052	2,432	2,802	2,977	3,200	3,251	3,144	3,113	2,809	2,364	2951
16,579	16,087	15,981	16,211	16,131	16,355	16,615	16,494	16,991	16,993	17,192	16,981	16,823	2952
7,996	8,172	8,153	8,156	8,065	7,944	7,862	7,733	7,822	7,858	7,975	7,990	8,066	299
1,204	1,395	1,362	1,282	1,141	1,090	1,058	1,038	1,069	1,160	1,229	1,273	1,288	2991
6,271	6,207	6,234	6,220	6,257	6,209	6,273	6,236	6,327	6,275	6,309	6,292	6,327	2992
521	570	557	654	667	645	531	459	426	423	437	425	451	2999
258,260	272,581	271,622	269,526	266,172	256,381	252,104	243,319	247,729	250,003	254,815	256,480	258,024	30
115,657	121,214	120,508	119,711	118,532	117,195	115,292	112,907	112,037	112,145	113,060	112,808	112,430	3011
28,125	30,130	30,659	30,518	30,304	28,473	26,882	22,249	26,781	26,974	27,745	28,096	28,673	3021
2,066	2,093	2,114	2,093	2,104	2,105	2,092	1,994	2,033	2,008	2,039	2,046	2,068	3031
112,412	119,144	118,341	117,204	115,232	108,608	107,838	106,169	106,878	108,876	111,971	113,530	114,853	3099

TABLE 4.—EMPLOYMENT, PAY ROLLS, AND MAN-HOURS,

INDUSTRY AND INDUSTRY GROUP		All establishments						
			All employees		Production and related workers			
					Number (average for the year)			
No.	Title	Number of establishments	Number (average for the year)	Salaries and wages, total	1939	1947	Man-hours, total	Wages, total
31	**Leather and leather products**	**5,308**	**383,175**	**$873,566**	327,189	348,529	676,774	**$725,143**
3111	Leather tanning and finishing	561	53,205	156,540	47,252	48,627	100,964	130,586
3121	Industrial leather belting	183	5,032	13,441	2,337	4,015	8,285	9,667
3131	Footwear cut stock	606	22,077	47,793	18,845	19,706	38,145	38,468
314	Footwear (except rubber)	1,500	240,315	516,879	218,010	220,654	419,652	438,894
3141	Footwear, except rubber	1,288	229,303	494,319	207,767	210,634	400,757	420,510
3142	House slippers	212	11,012	22,560	10,243	10,020	18,895	18,384
315	Leather gloves and mittens	341	11,544	20,710	9,539	10,464	18,132	17,040
3151	Leather dress gloves	252	8,968	15,844	7,690	8,151	13,669	13,141
3152	Leather work gloves	89	2,576	4,866	1,849	2,313	4,463	3,899
3161	Luggage	592	16,066	41,293	8,326	13,904	27,814	31,141
317	Handbags and small leather goods	980	25,907	57,011	17,663	23,246	47,858	44,122
3171	Handbags and purses	734	20,301	45,409	14,048	18,404	38,725	35,992
3172	Small leather goods	246	5,606	11,602	3,615	4,842	9,133	8,130
319	Miscellaneous leather goods	545	9,029	19,899	5,217	7,913	15,924	15,225
3192	Saddlery, harness, and whips	140	2,861	6,294	2,755	2,501	5,117	5,021
3199	Leather goods, n.e.c.	405	6,168	13,605	2,462	5,412	10,807	10,204
32	**Stone, clay, and glass products**	**11,650**	**462,072**	**1,210,768**	267,094	405,755	840,213	994,884
3211	Flat glass	34	27,241	84,067	16,739	24,325	46,966	73,252
322	Pressed and blown glassware	213	89,302	230,287	53,083	79,417	162,779	193,954
3221	Glass containers	87	47,132	126,503	25,753	41,943	87,530	107,101
3229	Pressed and blown glassware, n.e.c.	126	42,170	103,784	27,330	37,474	75,249	86,853
3231	Products of purchased glass	1,054	22,357	56,644	10,012	19,298	38,884	43,739
3241	Cement, hydraulic	155	35,662	98,626	20,249	30,639	66,341	79,861
325	Structural clay products	1,110	69,273	169,179	56,745	62,689	131,230	144,040
3251	Brick and hollow tile	674	29,617	69,390	29,069	27,002	58,367	59,876
3253	Floor and wall tile	37	6,828	16,335	5,681	6,250	13,088	13,774
3254	Sewer pipe	69	9,105	22,421	6,406	8,310	17,013	19,552
3255	Clay refractories	169	17,978	47,074	12,211	15,950	31,830	38,684
3259	Structural clay products, n.e.c.	161	5,745	13,950	3,378	5,177	10,932	12,154
326	Pottery and related products	742	58,006	146,962	33,105	53,376	107,064	126,677
3261	Vitreous plumbing fixtures	33	7,831	24,615	4,534	6,996	14,591	21,187
3262	Vitreous-china food utensils	27	11,100	26,849	4,350	10,326	20,228	23,530
3263	Earthenware food utensils	76	16,747	42,091	11,728	15,742	29,733	37,175
3264	Porcelain electrical supplies	50	11,547	30,463	6,018	10,447	21,553	25,454
3265	China decorating for the trade	65	1,048	2,471	421	875	1,811	1,679
3269	Pottery products, n.e.c.	491	9,733	20,473	6,054	8,990	19,148	17,652
327	Concrete and plaster products	6,494	70,176	169,559	28,947	61,572	134,302	140,032
3271	Concrete products	6,158	46,821	106,484	15,455	41,537	89,031	88,471
3272	Gypsum products	73	7,472	21,384	4,936	6,543	15,552	17,911
3274	Lime	172	7,009	18,767	6,708	6,129	14,200	15,516
3275	Mineral wool	91	8,874	22,924	1,848	7,363	15,519	18,134
3281	Cut-stone and stone products	640	9,880	25,922	11,841	8,312	17,257	20,605
329	Miscellaneous nonmetallic mineral products	1,208	80,175	229,522	36,373	66,127	135,390	172,724
3291	Abrasive products	253	20,754	66,158	7,734	15,864	31,246	45,031
3292	Asbestos products	111	21,463	60,119	10,415	18,140	37,486	47,429
3293	Gaskets and asbestos insulations	191	12,960	36,047	5,907	10,743	21,780	27,038
3294	Graphite: ground or blended	12	853	2,799	56	618	1,291	1,625
3295	Minerals: ground or treated	206	7,955	21,328	5,173	6,729	15,492	16,798
3296	Sand-lime products	26	303	746	346	250	531	591
3297	Nonclay refractories	63	10,273	27,783	4,542	8,951	17,626	22,963
3298	Statuary and art goods	272	2,025	4,268	983	1,829	3,640	3,534
3299	Nonmetallic mineral products, n.e.c.	74	3,589	10,274	1,217	3,003	6,298	7,715
33	**Primary metal industries**	**5,363**	**1,157,124**	**3,594,548**	672,438	**1,010,055**	**2,049,668**	**2,976,507**
331	Blast furnaces and steel mills	320	547,364	1,735,111	391,215	478,960	954,368	1,454,985
3311	Blast furnaces	86	36,937	112,018	19,537	32,697	66,065	93,598
3312	Steel works and rolling mills	215	500,799	1,593,808	368,904	438,088	871,625	1,337,938
3313	Electrometallurgical products	19	9,628	29,285	2,774	8,175	16,678	23,449
332	Iron and steel foundries	1,936	267,306	793,485	123,809	239,272	493,026	672,116
3321	Gray-iron foundries	1,654	173,776	512,177	75,680	157,361	328,474	441,657
3322	Malleable-iron foundries	78	29,862	90,811	18,041	26,659	54,650	76,750
3323	Steel foundries	204	63,668	190,497	30,088	55,252	109,902	153,709
333	Primary nonferrous metals	88	42,804	127,026	27,630	37,396	80,542	107,291
3331	Primary copper	27	14,629	44,790	24,828	13,065	29,751	38,967
3332	Primary lead	16	4,663	14,082		4,022	8,879	11,610
3333	Primary zinc	20	12,424	35,476		11,088	22,232	30,475
3334	Primary aluminum	11	8,919	26,398	2,802	7,336	16,014	20,930
3339	Primary nonferrous metals, n.e.c.	14	2,169	6,280	----------	1,885	3,666	5,309
3341	Secondary nonferrous metals	322	18,402	56,576	8,109	14,750	31,475	39,046
335	Nonferrous metal rolling and drawing	162	88,824	264,117	46,309	74,796	151,518	209,657
3351	Copper rolling and drawing	78	53,867	166,076	33,597	45,924	93,688	133,969
3352	Aluminum rolling and drawing	29	27,365	73,665	9,926	22,786	45,334	57,544
3359	Nonferrous metal rolling, n.e.c.	55	7,592	24,376	2,786	6,086	12,496	18,144
3361	Nonferrous foundries	1,724	65,342	198,988	23,362	57,469	116,709	163,706
339	Miscellaneous primary metal industries	811	127,082	419,245	52,004	107,412	222,030	329,706
3391	Iron and steel forgings	250	36,724	128,198	14,764	32,384	66,469	105,776
3392	Wire drawing	134	55,079	175,682	21,969	45,644	94,987	136,797
3393	Welded and heavy-riveted pipe	50	13,144	43,115	8,370	11,306	22,454	34,348
3399	Primary metal industries, n.e.c.	377	22,135	72,250	6,901	18,078	38,120	52,785

See footnotes at end of table.

FOR INDUSTRY GROUPS AND FOR INDUSTRIES: 1947—Continued

Establishments reporting employment by month													
Number of employees													No.
Average for the year [1]	January	February	March	April	May	June	July	August	September	October	November	December	
377,386	370,099	375,951	379,212	369,966	356,719	355,057	363,577	379,968	387,762	396,613	397,762	391,611	31
52,772	52,081	52,729	52,625	52,699	51,980	51,484	50,949	52,653	53,605	54,160	54,458	54,212	3111
5,032	5,323	5,389	5,398	5,329	5,233	5,053	4,883	4,729	4,691	4,758	4,720	4,830	3121
21,579	21,870	21,956	22,001	21,045	20,140	20,075	20,778	21,590	21,843	22,270	22,432	22,800	3131
238,555	233,117	236,873	239,342	234,747	226,737	226,984	233,299	241,004	244,231	247,733	248,384	249,616	314
227,543	224,094	227,630	229,741	224,960	216,920	216,948	222,617	229,045	231,512	234,189	234,833	237,484	3141
11,012	9,023	9,243	9,601	9,787	9,817	10,036	10,682	11,959	12,719	13,544	13,551	12,132	3142
11,544	12,146	11,691	11,522	10,608	10,325	10,445	10,595	11,701	12,013	12,635	12,712	11,951	315
8,968	9,566	9,171	8,976	8,031	7,816	7,947	8,313	9,199	9,437	9,890	9,997	9,197	3151
2,576	2,580	2,520	2,546	2,577	2,509	2,498	2,282	2,502	2,576	2,745	2,715	2,754	3152
15,711	15,241	15,154	15,251	15,013	14,373	14,808	14,570	15,784	16,644	17,426	17,457	16,552	3161
24,028	21,422	23,314	24,354	22,488	20,411	18,945	21,336	24,990	26,697	28,892	28,867	26,241	317
18,845	16,609	18,445	19,301	17,772	16,037	14,836	16,975	20,009	21,010	22,341	22,174	20,344	3171
5,183	4,813	4,869	5,053	4,716	4,374	4,109	4,361	4,981	5,687	6,551	6,693	5,897	3172
8,165	8,899	8,845	8,719	8,037	7,520	7,263	7,167	7,517	8,638	8,739	8,732	8,409	319
2,861	3,551	3,432	3,356	2,995	2,735	2,536	2,523	2,529	2,610	2,724	2,678	2,655	3192
5,304	5,348	5,413	5,363	5,042	4,785	4,727	4,644	4,988	5,428	6,015	6,054	5,754	3199
454,474	447,288	446,147	449,074	455,198	452,385	453,251	446,741	456,550	458,401	461,898	461,998	460,442	32
27,241	27,216	26,970	26,808	27,035	26,903	27,009	26,927	27,359	27,382	27,377	27,511	28,388	3211
89,302	91,372	89,269	90,554	91,521	91,587	89,837	84,889	87,829	88,769	88,975	88,715	88,231	322
47,132	47,485	46,999	47,154	47,452	47,609	47,252	47,393	47,616	48,081	46,994	46,062	45,478	3221
42,170	43,887	42,270	43,400	44,069	43,978	42,585	37,496	40,213	40,688	41,981	42,053	42,753	3229
20,869	21,638	21,641	21,680	21,460	21,028	20,462	19,700	20,004	20,077	20,683	20,982	20,774	3231
35,662	34,657	34,746	34,869	35,216	33,014	35,526	35,992	36,855	36,797	36,820	36,734	36,618	3241
69,273	65,325	65,270	65,870	68,005	68,620	69,943	70,201	71,285	71,621	71,730	71,795	71,293	325
29,617	27,492	27,229	27,439	28,920	29,526	30,385	30,779	30,940	30,907	30,896	30,757	30,037	3251
6,828	5,966	6,053	6,275	6,572	6,678	6,776	6,980	7,072	7,197	7,311	7,504	7,486	3253
9,105	8,739	8,809	8,970	8,889	9,129	9,383	9,082	9,212	9,196	9,149	9,231	9,494	3254
17,978	17,731	17,800	17,828	17,951	18,032	17,999	17,891	18,020	18,146	18,143	18,092	18,035	3255
5,745	5,397	5,379	5,358	5,673	5,255	5,400	5,469	6,041	6,175	6,231	6,211	6,241	3259
57,005	56,832	57,085	57,059	56,873	55,958	55,566	54,639	56,644	56,700	58,032	59,119	59,353	326
7,831	7,709	7,683	7,739	7,741	7,816	7,855	7,912	7,947	7,524	7,642	8,082	8,293	3261
11,100	10,502	10,728	10,821	10,996	10,996	11,177	11,069	11,218	11,253	11,409	11,502	11,525	3262
16,747	16,464	16,717	16,811	16,890	16,554	16,525	15,383	16,690	16,892	17,135	17,342	17,504	3263
11,547	11,850	11,906	11,743	11,697	11,771	11,559	11,427	11,483	11,209	11,270	11,278	11,352	3264
1,009	1,132	1,097	1,066	999	889	863	878	896	969	1,054	1,125	1,110	3265
8,771	9,175	8,954	8,879	8,550	7,932	7,587	7,970	8,410	8,853	9,522	9,790	9,569	3269
66,614	60,686	60,935	62,460	65,626	66,893	67,989	68,453	69,218	69,327	69,914	68,605	66,637	327
43,259	37,406	37,345	39,219	42,487	43,949	44,899	45,495	46,475	46,439	46,502	44,432	41,964	3271
7,472	7,423	7,396	7,105	7,149	6,915	7,318	7,447	7,165	7,345	7,818	8,138	8,407	3272
7,009	6,710	6,821	6,846	7,048	7,096	7,147	7,179	7,120	7,104	7,008	7,023	6,992	3274
8,874	9,147	9,373	9,290	8,942	8,933	8,625	8,332	8,458	8,439	8,586	9,012	9,274	3275
8,876	8,881	8,896	9,016	8,950	7,997	7,728	8,084	9,274	9,396	9,413	9,387	9,314	3281
79,632	80,681	81,335	80,758	80,512	80,385	79,191	77,856	78,082	78,332	78,954	79,150	79,834	329
20,754	22,114	22,178	22,226	22,081	21,861	20,995	19,894	19,345	19,343	19,540	19,610	19,778	3291
21,463	21,580	21,678	21,211	21,039	21,400	21,559	20,685	21,294	21,551	21,710	21,759	21,983	3292
12,960	12,992	13,230	13,101	12,891	12,931	12,572	12,757	12,856	12,875	13,038	13,056	13,109	3293
853	798	828	861	866	871	872	885	846	843	827	850	845	3294
7,924	7,713	7,863	7,855	7,918	8,019	8,041	8,062	7,941	7,889	7,857	7,869	8,001	3295
303	311	295	293	333	340	288	287	304	307	291	290	291	3296
10,273	10,095	10,145	10,154	10,233	9,925	10,066	10,380	10,450	10,439	10,413	10,406	10,544	3297
1,513	1,547	1,588	1,492	1,477	1,401	1,415	1,442	1,489	1,554	1,609	1,614	1,502	3298
3,589	3,531	3,530	3,565	3,674	3,637	3,383	3,464	3,557	3,531	3,669	3,696	3,781	3299
1,152,901	1,157,417	1,160,689	1,164,338	1,159,543	1,154,378	1,161,576	1,136,596	1,148,428	1,144,453	1,148,303	1,145,337	1,151,273	33
547,364	536,502	539,082	540,173	542,899	546,178	555,528	549,228	555,775	551,114	552,319	549,314	549,947	331
36,937	35,367	35,623	35,926	36,086	36,717	37,586	37,537	37,881	37,583	37,460	37,706	37,696	3311
500,799	491,706	493,882	494,547	497,038	499,689	508,152	502,138	508,280	503,923	505,404	502,049	502,567	3312
9,628	9,429	9,577	9,700	9,775	9,772	9,790	9,553	9,614	9,608	9,455	9,559	9,684	3313
265,294	265,642	266,092	268,216	267,194	267,030	266,209	260,242	264,416	264,019	264,421	263,959	265,139	332
171,764	170,881	172,351	173,630	172,828	172,767	172,938	170,363	171,625	171,039	170,950	170,430	170,623	3321
29,862	29,586	30,138	30,090	30,046	30,168	30,046	27,511	29,810	29,536	30,133	30,450	30,736	3322
63,668	65,175	63,603	64,496	64,320	64,095	63,225	62,368	62,981	63,444	63,338	63,079	63,780	3323
42,804	43,192	42,726	43,464	43,242	43,148	43,336	43,439	42,549	42,132	42,321	41,581	42,520	333
14,629	14,222	13,976	14,475	14,593	14,733	14,808	14,915	14,637	14,651	14,902	14,558	15,072	3331
4,663	4,581	4,391	4,600	4,560	4,673	4,726	4,838	4,722	4,650	4,841	4,645	4,733	3332
12,424	12,519	12,428	12,556	12,502	12,566	12,699	12,785	12,428	12,428	12,370	11,927	11,895	3333
8,919	9,686	9,745	9,583	9,377	9,027	8,920	8,729	8,586	8,296	8,082	8,304	8,693	3334
2,169	2,184	2,186	2,250	2,210	2,149	2,183	2,172	2,176	2,107	2,126	2,147	2,127	3339
18,402	18,563	18,647	18,901	18,898	18,931	18,821	18,011	17,759	17,873	18,151	18,101	18,009	3341
88,824	97,982	97,982	97,126	95,241	91,407	87,673	81,824	82,269	82,756	83,063	83,474	84,766	335
53,867	56,809	57,322	57,151	56,644	55,414	54,536	51,588	51,798	51,374	50,919	50,959	51,543	3351
27,365	32,866	32,375	31,762	30,463	28,279	25,735	23,208	23,313	24,247	24,926	25,291	25,914	3352
7,592	8,307	8,285	8,213	8,134	7,714	7,402	7,028	7,158	7,135	7,218	7,224	7,309	3359
63,131	69,167	68,205	68,125	66,711	63,272	61,731	59,104	58,949	59,309	60,264	60,781	61,394	3361
127,082	126,369	127,955	128,333	125,358	124,412	128,278	124,748	126,711	127,250	127,764	128,127	129,498	339
36,724	35,757	36,126	36,231	36,262	36,538	37,062	36,208	36,879	37,156	37,423	37,244	37,729	3391
55,079	54,604	55,558	56,154	53,017	51,614	55,857	54,393	55,163	55,452	55,852	56,232	57,107	3392
13,144	13,118	13,353	13,112	13,401	13,473	12,881	12,496	12,795	12,951	13,337	13,407	13,420	3393
22,135	22,890	22,918	22,836	22,678	22,787	22,478	21,651	21,874	21,691	21,152	21,244	21,242	3399

TABLE 4.—EMPLOYMENT, PAY ROLLS, AND MAN-HOURS,

INDUSTRY AND INDUSTRY GROUP		All establishments						
			All employees		Production and related workers			
		Number of establishments	Number (average for the year)	Salaries and wages, total	Number (average for the year)		Man-hours, total	Wages, total
No.	Title				1939	1947		
34	**Fabricated metal products**	16,734	971,461	$2,832,835	451,087	822,514	1,692,863	$2,188,581
3411	Tin cans and other tinware	217	46,890	127,338	29,277	40,890	84,954	105,689
342	Cutlery, hand tools, and hardware	1,866	154,168	432,726	75,175	131,604	272,263	339,163
3421	Cutlery	195	20,248	54,142	10,252	17,579	37,219	42,530
3422	Edge tools	238	8,828	24,681	4,889	7,632	15,610	19,486
3423	Hand tools, n.e.c	579	35,668	103,191	14,722	30,138	62,991	79,061
3424	Files	37	4,446	11,213	3,205	4,084	7,882	9,714
3425	Hand saws and saw blades	89	8,441	25,600	4,072	7,380	15,543	20,872
3429	Hardware, n.e.c	728	76,537	213,899	38,035	64,791	133,018	167,500
343	Heating and plumbing equipment	1,276	150,882	439,102	78,330	126,725	259,697	339,029
3431	Metal plumbing fixtures and fittings	277	34,089	96,371	22,889	30,107	61,083	80,144
3432	Oil burners	151	6,318	19,889	1,552	4,646	9,965	12,760
3439	Heating and cooking apparatus, n.e.c	848	110,475	322,842	53,889	91,972	188,649	246,125
344	Structural metal products	4,507	212,379	661,099	83,429	172,690	360,722	486,737
3441	Structural and ornamental products	1,667	79,678	249,034	36,776	64,278	135,948	180,105
3442	Metal doors, sash, and trim	320	21,079	66,038	7,387	17,359	36,630	49,238
3443	Boiler shop products	812	68,979	213,364	20,517	55,937	114,795	157,464
3444	Sheet-metal work	1,708	42,643	132,663	18,749	35,116	73,349	99,930
346	Metal stamping and coating	4,437	182,983	521,331	80,649	159,926	323,818	414,874
3461	Vitreous-enameled products	49	12,240	28,070	10,809	11,061	21,119	22,917
3463	Metal stampings	1,981	132,011	388,038	57,182	113,976	231,309	304,120
3465	Enameling and lacquering	261	4,025	10,188	1,821	3,653	7,395	8,653
3466	Galvanizing	125	3,056	8,036	1,212	2,711	5,695	6,548
3467	Engraving on metal	219	3,428	10,054	1,419	2,929	6,144	8,176
3468	Plating and polishing	1,802	28,223	76,345	8,206	25,596	52,156	64,460
3471	Lighting fixtures	1,206	47,596	132,858	20,477	39,883	80,259	97,351
348	Fabricated wire products	977	60,647	171,294	32,901	52,543	106,814	136,195
3481	Nails and spikes	68	3,805	9,876	2,515	3,278	6,617	7,738
3489	Wirework, n.e.c	909	56,842	161,418	30,386	49,265	100,197	128,457
349	Miscellaneous fabricated metal products	2,248	115,916	347,087	50,849	98,253	204,336	269,543
3491	Metal barrels, drums, and pails	70	10,915	31,331	6,072	9,329	18,449	24,918
3492	Safes and vaults	26	3,754	10,117	1,236	3,004	6,035	7,437
3493	Steel springs	81	7,760	24,938	2,940	6,747	14,135	20,233
3494	Bolts, nuts, washers, and rivets	364	49,235	151,514	20,722	40,908	85,895	115,790
3495	Screw-machine products	1,207	28,492	86,850	10,571	24,740	52,226	68,949
3496	Collapsible tubes	19	3,866	9,415	1,933	3,475	6,886	7,205
3497	Metal foil	43	4,261	11,732	2,278	3,673	7,422	9,252
3499	Fabricated metal products, n.e.c	438	7,633	21,190	5,097	6,377	13,288	15,759
35	**Machinery (except electrical)**	17,906	1,545,323	4,804,563	536,082	1,244,135	2,580,730	3,592,771
351	Engines and turbines	151	93,064	298,789	18,846	71,826	144,783	218,538
3511	Steam engines and turbines	17	21,640	71,972	4,094	15,375	31,258	49,584
3519	Internal-combustion engines	134	71,424	226,817	14,752	56,451	113,525	168,954
352	Tractors and farm machinery	1,102	171,435	494,625	60,144	139,629	284,480	381,574
3521	Tractors	94	77,317	227,767	30,898	62,926	125,699	177,966
3522	Farm machinery (except tractors)	1,008	94,118	266,858	29,246	76,703	158,781	203,608
353	Construction and mining machinery	747	113,871	355,367	36,750	88,905	188,357	255,047
3531	Construction and mining machinery	517	84,694	263,835	24,108	66,196	140,847	189,964
3532	Oil-field machinery and tools	230	29,177	91,532	12,642	22,709	47,510	65,083
354	Metalworking machinery	4,293	214,543	728,840	80,954	172,982	362,032	541,586
3541	Machine tools	316	70,657	235,938	36,997	54,892	113,432	166,206
3542	Metalworking machinery, n.e.c	428	54,988	182,068	18,123	43,568	92,108	132,810
3543	Cutting tools, jigs, fixtures, etc	3,549	88,898	310,834	25,834	74,522	156,492	242,570
355	Special-industry machinery, n.e.c	4,106	215,967	685,776	77,246	173,592	374,606	512,363
3551	Food-products machinery	622	36,839	113,506	14,155	28,826	62,099	82,062
3552	Textile machinery	489	53,583	158,446	22,580	45,393	98,607	126,142
3553	Woodworking machinery	294	15,642	48,707	3,649	12,623	27,219	35,332
3554	Paper-industries machinery	149	17,088	57,749	5,570	13,398	29,782	41,523
3555	Printing-trades machinery	326	24,752	84,333	9,564	19,584	42,739	62,616
3559	Special-industry machinery, n.e.c	2,226	68,063	223,035	21,728	53,768	114,160	164,688
356	General industrial machinery	2,191	217,402	690,443	72,799	164,249	341,743	472,472
3561	Pumps and compressors	447	54,726	167,498	20,063	40,358	85,505	115,404
3562	Elevators and escalators	111	10,227	33,998	3,591	7,317	15,331	22,890
3563	Conveyors	253	24,578	84,084	5,733	18,073	37,865	55,024
3564	Blowers and fans	192	14,794	44,202	4,069	11,087	23,389	30,329
3565	Industrial trucks and tractors	197	13,974	42,038	3,652	10,652	22,460	29,660
3566	Power-transmission equipment	416	54,316	173,596	18,203	43,975	89,584	124,941
3567	Industrial furnaces and ovens	108	6,341	21,719	1,283	4,045	8,421	11,872
3568	Mechanical stokers	46	4,111	12,371	3,756	3,118	6,062	8,886
3569	General industrial machinery, n.e.c	421	34,335	110,937	12,449	25,624	53,126	73,466
357	Office and store machines	357	97,778	303,123	42,989	84,340	175,576	247,458
3571	Computing and related machines	53	46,375	154,716	16,517	40,467	85,445	129,361
3572	Typewriters	28	26,604	73,377	16,195	23,838	49,684	63,709
3576	Scales and balances	75	6,526	18,849	2,839	4,874	10,041	12,847
3579	Office and store machines, n.e.c	201	18,273	56,181	7,438	15,161	30,406	41,541
358	Service and household machines	1,088	220,286	659,982	67,906	180,771	368,260	504,203
3581	Domestic laundry equipment	65	28,403	85,596	7,466	23,651	48,647	65,596
3582	Laundry and dry-cleaning machinery	127	9,093	27,435	2,783	6,888	14,790	19,015
3583	Sewing machines	70	15,305	48,484	7,840	12,647	26,095	37,926
3584	Vacuum cleaners	34	14,880	44,797	3,886	12,232	24,434	35,266
3585	Refrigeration machinery	561	129,290	380,216	39,433	108,316	220,003	299,175
3586	Measuring and dispensing pumps	52	12,083	36,972	5,054	8,884	17,090	24,174
3589	Service and household machines, n.e.c	179	11,232	36,482	1,444	8,153	17,201	23,051

See footnotes at end of table.

FOR INDUSTRY GROUPS AND FOR INDUSTRIES: 1947—Continued

Establishments reporting employment by month													
Number of employees													No.
Average for the year [1]	January	February	March	April	May	June	July	August	September	October	November	December	
947,040	951,126	953,750	957,102	948,740	933,409	929,095	918,074	935,726	948,686	957,138	961,444	967,156	34
46,890	44,374	44,307	43,997	44,843	45,216	45,813	47,029	49,991	50,870	48,673	48,401	49,095	3411
152,068	155,946	157,847	158,301	155,605	152,189	149,122	145,157	145,915	148,290	150,947	150,980	153,716	342
19,929	21,507	21,746	21,774	21,023	20,062	18,520	18,005	18,559	18,969	19,361	19,792	19,820	3421
8,554	8,858	8,904	8,805	8,665	8,619	8,567	8,133	8,293	8,378	8,403	8,429	8,531	3422
35,084	37,186	37,287	37,157	36,351	34,155	34,247	32,768	33,551	33,790	34,230	34,872	35,323	3423
4,446	4,700	4,669	4,635	4,601	4,537	4,506	4,347	4,330	4,284	4,214	4,175	4,277	3424
8,441	8,379	8,360	8,405	8,595	8,634	8,544	8,319	8,319	8,294	8,497	8,511	8,426	3425
75,614	75,316	76,881	77,525	76,670	76,182	74,738	73,585	72,863	74,575	76,242	75,201	77,339	3429
148,901	149,065	150,788	149,608	146,995	143,537	143,938	143,134	147,674	150,205	153,168	154,571	153,741	343
33,643	34,852	34,998	34,508	34,523	33,937	33,615	32,335	32,518	32,311	32,897	33,649	34,058	3431
6,318	6,332	6,384	6,305	6,312	6,222	6,248	6,220	6,453	6,411	6,464	6,375	6,028	3432
108,940	107,881	109,406	108,795	106,160	103,378	104,675	104,579	108,703	111,483	113,807	114,547	113,655	3439
206,237	199,805	200,252	201,704	203,115	202,996	204,498	204,232	208,958	209,979	211,806	212,994	213,235	344
77,682	75,081	75,129	75,593	76,327	76,589	77,095	77,850	79,050	79,055	79,488	80,214	80,248	3441
20,410	19,952	19,923	20,080	20,023	19,618	19,756	19,272	20,418	20,814	21,304	21,762	21,854	3442
68,038	65,616	66,375	66,688	67,727	67,645	67,940	67,280	68,800	69,206	69,642	69,746	69,457	3443
40,107	39,156	38,825	39,343	39,038	39,144	39,707	39,830	40,690	40,904	41,372	41,272	41,676	3444
174,030	176,501	176,670	176,631	174,769	172,550	170,837	167,290	170,459	173,328	174,845	176,598	178,139	346
12,240	12,231	12,199	12,489	12,412	12,239	12,259	11,544	11,996	12,223	12,266	12,519	12,478	3461
128,869	130,355	130,665	130,510	129,032	127,235	126,249	124,343	127,288	129,349	129,627	130,687	132,051	3463
3,406	3,599	3,611	3,571	3,509	3,435	3,263	2,926	3,020	3,287	3,422	3,527	3,520	3465
2,686	2,574	2,601	2,703	2,555	2,701	2,689	2,669	2,683	2,801	2,763	2,703	2,688	3466
3,063	3,345	3,355	3,333	3,243	2,992	3,015	2,860	2,861	2,866	2,909	2,964	3,038	3467
23,766	24,397	24,239	24,025	24,018	23,948	23,362	22,894	22,611	22,812	23,858	24,198	24,364	3468
46,089	47,666	48,114	47,818	45,815	44,567	43,786	43,053	44,416	45,917	47,495	47,410	46,873	3471
59,434	61,003	58,923	61,436	60,453	57,054	57,902	57,921	57,468	59,500	59,863	60,162	61,270	348
3,805	3,830	3,821	3,888	3,893	3,719	3,755	3,704	3,719	3,824	3,832	3,750	3,827	3481
55,629	57,173	55,102	57,548	56,560	53,335	54,147	54,217	53,749	55,676	56,031	56,372	57,443	3489
113,391	116,766	116,849	117,607	116,845	115,300	113,199	110,258	110,845	110,597	110,341	110,328	111,087	349
10,915	11,009	10,970	11,097	11,144	11,229	11,395	11,093	10,925	10,725	10,329	10,513	10,505	3491
3,754	3,710	3,763	3,823	3,830	3,960	3,919	3,897	3,827	3,751	3,547	3,515	3,496	3492
7,760	7,711	7,728	7,766	7,770	7,876	7,573	6,989	7,718	7,826	7,943	8,039	8,152	3493
48,933	49,038	49,108	49,451	49,551	49,240	49,173	48,097	48,685	48,734	48,474	48,605	49,043	3494
27,211	29,833	29,708	29,854	29,256	28,094	26,905	26,241	25,574	25,212	25,384	24,889	25,134	3495
3,866	4,136	4,296	4,301	4,223	4,258	3,799	3,268	3,250	3,619	3,748	3,763	3,705	3496
4,261	4,568	4,545	4,471	4,405	4,116	3,974	4,058	4,177	4,211	4,178	4,175	4,235	3497
6,691	6,761	6,731	6,844	6,666	6,527	6,461	6,615	6,689	6,519	6,738	6,769	6,817	3499
1,524,616	1,511,559	1,528,594	1,535,500	1,540,270	1,533,875	1,527,079	1,498,187	1,511,316	1,514,049	1,521,956	1,525,469	1,539,061	35
93,064	95,727	96,096	94,586	93,609	93,093	93,293	92,267	91,909	91,531	91,221	90,849	92,630	351
21,640	21,557	21,182	21,243	20,805	21,097	21,422	21,128	21,915	22,041	22,325	22,271	22,720	3511
71,424	74,170	74,914	73,343	72,804	71,996	71,871	71,079	69,994	69,490	68,896	68,578	69,910	3519
170,330	158,994	161,906	164,179	168,006	170,417	173,914	173,926	172,661	173,588	172,424	175,121	178,947	352
77,317	71,550	72,341	73,098	75,016	76,760	78,361	79,613	78,697	80,253	78,196	81,347	82,514	3521
93,013	87,444	89,565	91,081	92,990	93,657	95,550	94,313	93,364	93,335	94,228	93,774	96,433	3522
113,785	112,616	113,577	113,898	114,405	114,166	113,846	113,424	113,210	112,543	114,129	114,330	115,845	353
84,608	83,645	84,593	84,657	84,955	84,867	85,102	84,600	84,315	83,354	84,659	84,848	86,370	3531
29,177	28,971	28,984	29,241	29,450	29,299	28,744	28,824	28,895	29,189	29,470	29,482	29,475	3532
209,215	218,998	219,772	218,570	215,694	211,015	208,019	204,475	203,442	202,786	202,027	201,174	201,355	354
70,526	76,529	75,692	74,451	73,362	71,294	70,549	68,992	68,405	67,618	67,065	66,321	65,773	3541
54,542	56,303	56,549	56,178	55,196	54,037	53,301	53,422	53,479	53,721	53,772	54,061	54,337	3542
84,147	86,166	87,531	87,941	87,136	85,684	84,079	82,061	81,558	81,447	81,190	80,792	81,245	3543
212,425	208,877	211,543	213,401	214,382	213,899	214,423	209,327	210,441	210,852	213,597	213,177	213,864	355
36,139	35,572	36,109	36,228	36,421	36,097	36,528	35,870	36,073	36,205	36,264	36,131	36,039	3551
53,559	51,731	52,751	53,657	54,261	54,158	54,244	51,742	51,625	52,578	54,758	55,272	55,698	3552
15,442	16,119	16,193	16,074	16,053	15,761	15,351	14,794	14,906	14,809	14,931	15,061	15,181	3553
17,088	16,326	16,669	16,904	16,992	17,156	17,195	16,705	17,246	17,237	17,382	17,477	17,670	3554
24,308	23,605	23,553	23,736	24,080	24,399	24,793	24,620	24,632	24,306	24,496	24,602	24,728	3555
65,889	65,530	66,268	66,802	66,575	66,328	66,312	65,596	65,959	65,717	65,766	64,634	64,548	3559
215,620	216,541	218,768	219,765	217,968	215,522	215,786	211,435	213,321	214,107	214,413	213,905	214,717	356
54,346	54,832	55,271	55,608	54,959	54,494	54,440	53,741	53,420	53,474	53,801	53,843	54,014	3561
10,227	10,049	10,234	10,387	10,487	10,072	10,278	10,160	10,247	10,225	10,241	10,216	10,120	3562
24,420	24,071	24,121	24,020	23,863	23,733	24,340	24,591	24,796	24,811	24,763	24,805	24,977	3563
14,794	14,372	14,701	14,993	15,051	15,192	15,277	14,635	14,790	14,569	14,585	14,526	14,669	3564
13,974	13,728	13,874	13,933	13,986	13,882	13,934	13,780	13,915	14,065	14,118	14,143	14,182	3565
53,844	54,960	55,612	55,708	55,066	54,542	53,919	51,619	53,024	52,938	52,919	52,610	52,919	3566
6,341	6,510	6,575	6,554	6,400	6,383	6,349	6,358	6,305	6,190	6,168	6,105	6,148	3567
4,111	3,969	3,990	4,070	4,000	4,010	4,006	4,180	4,371	4,420	4,191	4,108	4,005	3568
33,563	34,050	34,390	34,492	34,151	33,214	33,243	32,371	32,453	33,415	33,627	33,549	33,683	3569
97,778	94,840	96,675	98,192	99,117	100,084	90,999	84,628	98,497	100,100	102,206	103,178	104,646	357
46,375	43,432	44,576	45,755	46,460	46,962	43,765	40,193	47,049	48,102	49,122	50,014	51,037	3571
26,604	26,531	27,049	27,372	27,258	27,712	22,026	19,844	27,315	27,877	28,275	28,783	29,187	3572
6,526	6,085	6,193	6,289	6,360	6,451	6,571	6,615	6,651	6,696	6,685	6,795	6,877	3576
18,273	18,792	18,857	18,776	19,039	18,959	18,637	17,976	17,482	17,425	18,124	17,586	17,545	3579
219,417	205,382	209,798	212,145	216,638	218,374	223,084	221,201	221,836	222,519	225,329	226,859	229,409	358
28,403	25,200	26,443	27,022	27,722	27,763	28,349	27,510	28,667	29,268	30,418	30,967	31,469	3581
9,693	10,246	9,916	9,772	9,573	9,304	9,070	9,005	8,871	8,592	8,275	8,175	8,192	3582
15,305	14,672	14,840	15,108	15,264	14,171	14,451	15,502	14,749	15,603	15,990	16,510	16,779	3583
14,880	12,977	13,176	13,718	14,311	14,779	15,537	15,307	15,713	15,846	15,671	15,794	15,728	3584
128,421	117,917	120,816	122,587	125,709	128,456	132,272	131,005	130,958	130,474	132,218	133,212	135,254	3585
12,083	12,577	12,638	12,610	12,644	12,650	12,483	12,066	11,854	11,721	11,592	11,175	10,971	3586
11,232	11,793	11,975	11,328	11,415	11,251	10,922	10,806	11,024	11,015	11,165	11,026	11,016	3589

TABLE 4.—EMPLOYMENT, PAY ROLLS, AND MAN-HOURS,

INDUSTRY AND INDUSTRY GROUP		All establishments						
			All employees		Production and related workers			
		Number of establishments	Number (average for the year)	Salaries and wages, total	Number (average for the year)		Man-hours, total	Wages, total
No.	Title				1939	1947		
35	Machinery (except electrical)—Continued							
359	Miscellaneous machinery parts	3,871	200,977	$587,618	78,448	167,841	340,893	$459,530
3591	Valves and fittings, except plumbers'	453	80,075	238,951	32,159	65,855	132,765	184,638
3592	Fabricated pipe and fittings	212	10,568	33,362	2,792	8,273	16,781	23,172
3593	Ball and roller bearings	94	52,174	153,333	19,164	45,075	91,323	125,711
3599	Machine shops	3,112	58,160	161,972	24,333	48,638	100,024	126,009
36	**Electrical machinery**	3,973	801,359	2,271,039	247,930	639,147	1,287,236	1,647,401
361	Electrical industrial apparatus	1,567	321,352	940,861	95,179	253,575	516,537	683,452
3611	Wiring devices and supplies	342	38,367	102,322	14,024	32,452	65,041	77,451
3612	Carbon and graphite products	44	7,818	22,028	3,189	6,426	12,856	16,504
3613	Electrical measuring instruments	154	20,926	60,661	6,976	16,086	32,576	42,326
3614	Motors and generators	256	127,012	374,135	44,423	101,852	208,063	282,252
3615	Transformers	144	36,635	107,978	9,260	28,160	58,568	78,525
3616	Electrical control apparatus	324	72,330	215,974	14,747	54,589	111,078	148,360
3617	Electrical welding apparatus	108	7,265	29,151	1,653	5,139	10,185	17,709
3619	Electrical industrial apparatus, n.e.c.	195	10,999	28,612	907	8,871	18,170	20,325
3621	Electrical appliances	326	44,371	124,957	13,572	37,271	78,423	96,654
3631	Insulated wire and cable	171	21,282	58,044	15,696	18,185	37,160	45,375
3641	Engine electrical equipment	110	43,920	125,393	17,043	37,978	73,329	102,144
3651	Electric lamps	62	23,842	57,914	9,622	21,550	42,090	48,891
366	Communication equipment	1,210	303,391	847,247	74,992	234,706	465,488	581,158
3661	Radios and related products	857	178,595	462,207	45,484	142,478	280,163	324,300
3662	Electronic tubes	51	27,703	65,420	11,256	22,571	43,662	46,704
3663	Phonograph records	111	10,045	29,193	926	8,246	17,595	22,840
3664	Telephone and telegraph equipment	60	76,072	258,567	14,433	53,630	108,687	167,488
3669	Communication equipment, n.e.c.	161	10,976	31,860	2,893	7,781	15,381	19,826
369	Miscellaneous electrical products	527	43,201	116,623	21,826	35,882	74,209	89,727
3691	Storage batteries	246	16,570	48,379	9,564	13,632	29,541	38,257
3692	Primary batteries (dry and wet)	38	10,261	24,463	5,470	9,181	18,407	20,656
3693	X-ray and therapeutic apparatus	116	7,678	23,217	1,920	5,621	11,762	15,354
3699	Electrical products, n.e.c.	127	8,692	20,564	4,872	7,448	14,499	15,460
37	**Transportation equipment**	3,711	1,181,680	3,719,583	544,553	987,142	1,972,971	2,939,815
371	Motor vehicles and equipment	1,904	701,121	2,207,456	393,617	599,301	1,185,849	1,797,805
3717	Motor vehicles and parts	963	653,169	2,067,473	388,126	558,693	1,102,482	1,687,685
3713	Truck and bus bodies	603	26,646	78,386		22,876	47,209	62,664
3715	Truck trailers	119	12,020	34,833	3,960	9,400	19,239	25,256
3716	Automobile trailers	219	9,286	26,764	1,531	8,332	16,919	22,200
372	Aircraft and parts	332	219,611	703,702	48,761	162,596	329,452	476,297
3721	Aircraft	58	146,625	462,906	34,159	110,332	221,796	316,795
3722	Aircraft engines	57	50,253	165,554	9,445	35,872	73,798	110,177
3723	Aircraft propellers	13	7,423	25,666	5,157	4,822	9,916	15,230
3729	Aircraft equipment, n.e.c.	204	15,310	49,576		11,570	23,942	34,095
373	Ships and boats	1,110	149,655	467,585	69,241	132,033	269,136	394,371
3731	Ship building and repairing	301	130,200	415,828	69,241	114,718	234,103	350,836
3732	Boat building and repairing	809	19,455	51,757		17,315	35,033	43,535
374	Railroad equipment	122	91,116	283,552	24,709	75,691	151,861	224,867
3741	Locomotives and parts	36	30,337	97,608	6,998	25,368	50,677	78,131
3742	Railroad and street cars	86	60,779	185,944	17,711	50,323	101,184	146,736
3751	Motorcycles and bicycles	76	15,615	45,661	6,973	13,659	28,245	37,732
3799	Transportation equipment, n.e.c.	167	4,562	11,627	1,252	3,862	8,428	8,743
38	**Instruments and related products**	2,599	231,997	665,347	84,867	181,939	368,028	467,785
3811	Scientific instruments	216	20,384	61,719	6,529	15,023	30,099	41,831
3821	Mechanical measuring instruments	463	53,237	155,589	15,075	40,937	81,757	109,196
3831	Optical instruments and lenses	114	6,458	18,664	2,209	5,228	10,820	14,025
384	Medical instruments and supplies	980	38,369	107,837	14,624	29,617	59,361	71,281
3841	Surgical and medical instruments	139	6,980	20,297	1,911	5,818	11,702	15,281
3842	Surgical appliances and supplies	628	22,315	61,915	8,468	16,667	33,412	38,696
3843	Dental equipment and supplies	213	9,074	25,625	4,245	7,132	14,247	17,304
3851	Ophthalmic goods	184	22,457	56,811	10,252	19,744	39,441	46,224
3861	Photographic equipment	306	50,911	154,416	16,434	36,273	75,452	101,765
387	Watches and clocks	276	40,181	110,311	19,744	35,117	71,098	83,463
3871	Watches and clocks	194	34,623	93,331	17,335	30,237	60,899	70,372
3872	Watchcases	82	5,558	16,980	2,409	4,880	10,199	13,091
39	**Miscellaneous manufactures**	14,131	464,420	1,205,508	241,725	397,579	814,457	920,508
391	Jewelry and silverware	2,031	54,827	167,433	27,604	45,880	98,669	126,947
3911	Jewelry (precious metal)	1,344	25,566	76,462	11,358	20,610	42,877	54,222
3912	Jewelers' findings	182	6,056	17,350	2,813	5,203	11,001	12,389
3913	Lapidary work	270	1,699	5,524	267	1,525	3,068	4,532
3914	Silverware and plated ware	235	21,506	68,097	13,166	18,542	41,723	55,804
393	Musical instruments and parts	260	16,889	46,808	10,806	14,814	31,269	38,198
3931	Pianos	27	6,978	20,573	5,311	6,170	13,204	16,948
3932	Organs	27	1,337	3,362	2,304	1,131	2,428	2,647
3933	Piano and organ parts	37	3,209	8,402		2,928	6,223	7,185
3939	Musical instruments, n.e.c.	169	5,365	14,471	3,191	4,585	9,414	11,418
394	Toys and sporting goods	2,198	75,493	173,833	36,803	67,228	132,470	138,350
3941	Games and toys, n.e.c.	837	27,140	60,554	13,778	24,174	47,093	47,403
3942	Dolls	377	9,797	21,847	4,890	8,886	17,386	17,739
3943	Children's vehicles	120	8,783	24,735	4,319	7,773	15,972	19,423
3949	Sporting and athletic goods	864	29,773	66,697	13,816	26,395	52,019	53,785

See footnotes at end of table.

FOR INDUSTRY GROUPS AND FOR INDUSTRIES: 1947—Continued

Establishments reporting employment by month													
Number of employees													No.
Average for the year [1]	January	February	March	April	May	June	July	August	September	October	November	December	
192,982	199,584	200,459	200,764	200,451	197,305	193,715	187,564	186,509	186,023	186,610	186,876	187,648	359
79,776	82,548	82,342	83,382	82,926	81,524	80,076	77,098	77,377	76,524	77,245	77,631	78,472	3591
10,568	9,832	10,143	10,342	10,526	10,577	10,637	10,388	10,696	10,780	10,849	10,895	10,992	3592
52,174	52,060	52,722	52,283	53,438	53,646	53,128	51,922	51,164	51,355	51,346	50,582	51,051	3593
50,404	55,144	55,252	54,757	53,561	51,558	49,874	48,156	47,362	47,364	47,170	47,368	47,133	3599
798,915	828,938	833,261	830,176	793,227	775,589	786,967	766,392	771,873	783,994	798,909	809,123	806,901	36
321,352	322,722	324,779	323,745	322,131	319,429	319,262	316,277	317,617	319,481	321,827	323,663	324,442	361
38,367	38,251	39,194	38,896	39,099	38,738	38,092	37,278	37,464	37,560	38,240	38,768	38,640	3611
7,818	7,960	8,083	8,106	8,100	7,215	8,016	8,065	7,986	7,803	7,511	7,482	7,456	3612
20,926	21,863	21,631	21,413	21,087	20,927	20,466	20,312	20,112	20,400	20,710	20,957	21,152	3613
127,012	124,219	124,867	125,174	125,367	126,591	127,511	127,419	127,196	127,710	128,895	129,249	129,703	3614
36,635	35,591	36,033	35,597	35,095	35,236	35,826	36,355	37,005	37,818	38,018	38,426	38,705	3615
72,330	73,978	74,304	73,984	73,306	71,975	71,709	70,528	71,356	71,405	71,499	71,877	71,668	3616
7,265	7,832	7,727	7,623	7,441	7,229	6,763	6,994	7,688	7,126	7,065	7,086	7,120	3617
10,999	13,628	12,910	12,952	12,606	11,518	10,849	9,326	9,410	9,659	9,839	9,844	9,898	3619
43,877	42,311	42,808	42,998	43,635	43,287	43,354	42,647	42,091	43,819	45,424	47,007	47,132	3621
21,282	22,681	22,798	22,458	21,801	20,933	20,870	20,199	20,138	20,303	20,705	21,013	21,330	3631
43,920	46,740	47,114	46,831	46,477	45,565	43,623	42,433	42,873	42,026	41,307	41,168	40,818	3641
23,842	24,732	24,434	24,495	24,362	24,299	23,702	23,251	23,187	23,284	23,433	23,616	23,281	3651
301,743	327,353	328,675	326,661	292,454	282,239	294,530	280,374	283,526	291,452	300,954	306,690	305,342	366
176,947	193,636	193,374	190,939	183,400	175,576	168,287	160,068	164,239	167,235	173,814	177,328	175,300	3661
27,703	31,687	31,618	31,181	27,911	25,922	26,319	25,288	25,393	25,826	26,555	27,169	27,585	3662
10,045	9,554	9,989	10,152	10,142	9,982	9,705	9,463	9,656	10,209	10,785	10,748	10,081	3663
76,072	80,663	81,908	82,783	59,631	59,729	79,400	75,669	73,902	77,749	79,211	81,036	81,793	3664
10,976	11,813	11,786	11,606	11,370	11,030	10,819	10,486	10,406	10,433	10,589	10,679	10,603	3669
42,899	42,399	42,653	42,988	42,367	39,837	41,626	41,211	42,371	43,539	45,259	45,696	44,556	369
16,570	15,327	15,965	16,115	16,244	15,994	16,015	15,709	16,193	16,755	17,598	18,353	18,362	3691
10,261	11,156	10,844	11,012	10,433	7,952	9,483	9,293	9,805	10,411	10,734	10,971	10,957	3692
7,525	8,235	8,111	8,085	7,949	7,845	7,082	7,557	7,371	7,215	7,131	6,649	6,393	3693
8,543	7,681	7,733	7,770	7,741	8,046	8,446	8,652	8,912	9,158	9,796	9,723	8,814	3699
1,177,578	1,190,079	1,218,090	1,217,055	1,223,799	1,174,653	1,191,529	1,127,881	1,132,748	1,141,406	1,142,230	1,172,660	1,197,957	37
698,865	675,417	706,700	707,184	709,246	673,735	699,754	689,817	698,125	701,670	694,799	708,798	721,156	371
652,344	628,703	660,221	661,014	663,983	628,207	654,265	643,929	651,457	654,085	647,634	661,397	673,603	3717
25,707	23,617	24,374	24,732	25,237	25,420	25,566	26,002	26,688	26,845	26,905	26,435	26,478	3713
11,876	15,244	14,323	13,788	12,304	12,006	11,076	10,602	10,459	10,273	10,651	10,651	11,028	3715
8,938	7,853	7,782	7,650	7,722	8,102	8,817	9,284	9,521	9,867	10,209	10,315	10,047	3716
219,611	235,793	231,955	229,407	230,140	221,016	212,808	210,795	210,896	209,861	212,856	214,227	215,370	372
146,625	159,870	157,277	154,758	156,089	148,334	140,743	139,369	139,637	138,338	140,568	142,002	142,453	3721
50,253	55,082	51,929	51,906	51,157	49,965	49,134	48,798	48,747	49,081	49,628	49,602	49,975	3722
7,423	7,403	7,182	7,328	7,378	7,303	7,316	7,247	7,361	7,458	7,634	7,709	7,752	3723
15,310	15,438	15,567	15,415	15,516	15,414	15,615	15,381	15,151	14,984	15,026	14,914	15,190	3729
148,116	170,453	169,639	170,154	173,533	170,727	168,831	117,809	113,860	118,681	121,921	135,189	146,218	373
130,200	152,858	151,292	150,443	152,738	150,358	148,483	98,927	97,039	102,992	106,755	120,488	129,899	3731
17,916	17,595	18,347	19,711	20,795	20,369	20,348	18,882	16,821	15,689	15,166	14,701	16,319	3732
91,116	89,418	90,478	90,581	91,321	89,596	90,185	89,204	89,901	91,567	92,285	94,073	94,722	374
30,337	31,567	32,071	31,222	30,569	29,196	29,721	28,470	29,108	29,740	30,362	30,716	31,289	3741
60,779	57,851	58,407	59,359	60,752	60,400	60,464	60,734	60,793	61,827	61,923	63,357	63,433	3742
15,615	14,417	14,790	15,147	14,979	15,296	15,657	15,618	15,981	16,174	16,367	16,392	16,518	3751
4,255	4,581	4,528	4,582	4,580	4,283	4,204	4,138	3,985	4,053	4,002	3,981	3,973	3799
228,821	233,328	234,074	233,983	232,444	231,469	228,876	224,704	225,258	224,966	225,999	225,399	225,144	38
20,384	19,697	19,768	19,972	20,194	20,418	20,534	20,551	20,732	20,675	20,941	20,512	20,514	3811
52,761	54,298	54,761	54,434	54,330	54,238	53,425	51,433	51,655	51,539	51,290	50,550	51,018	3821
6,458	6,449	6,403	6,469	6,399	6,446	6,430	6,445	6,477	6,441	6,531	6,490	6,456	3831
36,841	38,327	38,434	38,117	37,820	37,424	36,682	36,252	35,897	35,589	35,746	35,877	35,915	384
6,980	6,972	7,018	7,055	7,084	6,832	7,011	6,930	6,921	6,904	6,909	6,987	7,009	3841
21,038	21,345	21,763	21,813	21,557	21,732	20,968	20,748	20,605	20,524	20,601	20,520	20,436	3842
8,823	10,010	9,653	9,249	9,179	8,860	8,703	8,574	8,371	8,161	8,176	8,370	8,470	3843
22,136	24,277	24,160	23,824	23,300	22,854	22,085	20,941	20,924	20,769	20,873	20,707	20,861	3851
50,454	50,772	50,506	50,653	50,628	50,261	50,170	50,362	50,621	50,348	50,506	50,721	50,278	3861
39,787	39,508	40,042	40,514	39,773	39,828	39,550	38,720	38,952	39,615	40,112	40,542	40,102	387
34,376	33,852	34,457	34,995	34,375	34,566	34,303	33,487	33,657	34,177	34,526	35,072	34,925	3871
5,411	5,656	5,585	5,519	5,398	5,262	5,247	5,233	5,295	5,438	5,586	5,470	5,177	3872
442,110	442,709	444,534	446,603	437,733	425,529	417,720	411,537	429,437	445,686	468,005	472,632	460,082	39
52,533	53,460	53,242	52,995	51,340	49,752	49,079	47,968	50,866	53,073	55,758	55,451	55,008	391
23,941	25,231	24,719	24,476	23,412	22,605	21,992	21,617	22,854	23,794	25,328	25,651	25,224	3911
6,056	6,402	6,482	6,420	5,952	5,524	5,494	5,326	5,795	6,108	6,420	6,426	6,268	3912
1,244	1,211	1,277	1,289	1,263	1,205	1,172	985	1,040	1,272	1,370	1,424	1,415	3913
21,292	20,616	20,764	20,810	20,713	20,418	20,421	20,040	21,177	21,899	22,640	22,950	23,101	3914
16,522	15,394	16,260	16,470	16,385	16,396	16,371	16,040	15,792	16,736	17,242	17,550	17,593	393
6,978	6,583	6,743	6,831	6,847	6,853	6,932	6,823	6,901	7,086	7,250	7,417	7,458	3931
1,337	1,229	1,224	1,247	1,251	1,247	1,273	1,322	1,363	1,414	1,472	1,477	1,503	3932
3,209	3,172	3,198	3,212	3,305	3,300	3,298	3,098	2,556	3,232	3,320	3,405	3,402	3933
4,998	4,410	5,095	5,180	4,982	4,996	4,868	4,797	4,972	5,004	5,200	5,251	5,250	3939
70,683	65,769	67,076	68,419	68,488	67,680	66,723	65,121	70,046	74,192	80,007	80,367	73,724	394
25,245	22,404	22,807	23,676	23,598	22,865	22,712	23,810	25,382	28,230	30,606	30,563	26,162	3941
9,105	6,971	7,354	7,604	7,710	7,922	8,246	7,670	9,510	10,315	12,234	12,322	11,220	3942
8,678	8,506	8,339	8,187	8,211	8,204	7,816	7,716	8,640	9,168	9,931	10,137	9,265	3943
27,655	27,888	28,576	28,952	28,669	28,689	27,949	25,925	26,514	26,479	27,236	27,345	27,077	3949

TABLE 4.—EMPLOYMENT, PAY ROLLS, AND MAN-HOURS,

INDUSTRY AND INDUSTRY GROUP		All establishments						
			All employees		Production and related workers			
		Number of establishments	Number average for the year)	Salaries and wages, total	Number (average for the year)		Man-hours, total	Wages, total
No.	Title				1939	1947		
39	Miscellaneous manufactures—Continued							
395	Office supplies	787	31, 557	$82, 074	12, 591	24, 734	50, 520	$55, 553
3951	Pens and mechanical pencils	184	15, 553	40, 606	4, 463	12, 527	24, 705	28, 207
3952	Lead pencils and crayons	50	6, 279	14, 726	3, 779	5, 190	10, 726	10, 409
3953	Hand stamps and stencils	426	4, 684	12, 900	2, 211	3, 462	7, 406	8, 729
3954	Artists' materials	60	1, 360	3, 220	397	997	2, 006	1, 944
3955	Carbon paper and inked ribbons	67	3, 681	10, 622	1, 741	2, 558	5, 677	6, 264
396	Costume jewelry and notions	2, 034	65, 878	153, 561	40, 989	57, 593	117, 244	118, 562
3961	Costume jewelry	859	25, 371	59, 487	12, 228	22, 266	46, 532	45, 979
3962	Artificial flowers	445	7, 130	13, 448	6, 650	6, 569	12, 348	10, 713
3963	Buttons	453	10, 418	21, 835	10, 972	9, 417	19, 055	17, 542
3964	Needles, pins, and fasteners	277	22, 959	58, 791	11, 139	19, 341	39, 309	44, 328
3971	Plastics products, n.e.c.	1, 360	60, 092	159, 024	15, 094	51, 512	106, 373	123, 583
399	Miscellaneous manufactures	5, 461	159, 684	422, 775	97, 838	135, 818	277, 912	319, 315
3981	Brooms and brushes	706	18, 551	44, 875	11, 678	15, 543	30, 617	31, 162
3982	Cork products	36	2, 485	6, 802	2, 923	2, 150	4, 562	5, 427
3983	Matches	29	7, 350	16, 422	5, 426	6, 612	13, 724	13, 406
3984	Candles	54	2, 405	5, 596	840	1, 933	3, 972	3, 704
3985	Fireworks and pyrotechnics	73	3, 251	6, 694	1, 158	2, 982	5, 954	5, 706
3986	Jewelry and instrument cases	165	7, 383	16, 446	4, 099	6, 681	13, 603	13, 280
3987	Lamp shades	291	4, 488	8, 473	2, 671	4, 100	8, 275	7, 043
3988	Morticians' goods	568	22, 375	60, 002	12, 447	18, 242	38, 987	42, 388
3991	Beauty and barber-shop equipment	70	4, 065	11, 884	1, 779	3, 185	6, 624	7, 698
3992	Furs, dressed and dyed	175	6, 848	25, 540	4, 956	6, 147	12, 730	21, 673
3993	Signs and advertising displays	1, 983	28, 879	82, 045	17, 206	24, 328	49, 611	62, 026
3994	Hair work	87	1, 170	2, 436	322	1, 046	2, 039	2, 040
3995	Umbrellas, parasols, and canes	164	3, 585	8, 360	2, 862	3, 267	6, 628	6, 490
3996	Tobacco pipes	76	3, 140	8, 810	2, 481	2, 745	5, 552	6, 302
3997	Soda-fountain and bar equipment	67	2, 739	8, 488	1, 590	2, 231	4, 822	6, 524
3998	Models and patterns (except paper)	209	1, 868	5, 144	1, 206	1, 691	3, 362	4, 325
1951	Small arms (3989)	34	10, 453	30, 545	5, 001	9, 249	19, 200	25, 876
1961	Small arms ammunition (3990)	8	8, 050	22, 091	4, 264	6, 748	13, 649	17, 297
3999	Miscellaneous products, n.e.c.	666	20, 599	52, 122	14, 929	16, 938	34, 001	36, 948

[1] The "average for the year" represents the sum of the rounded individual establishments employment averages, each of which was calculated by dividing the sum of the twelve monthly figures by twelve and rounding to the nearest unit. Because of such rounding, the "average for the year" for many industries will differ from an average computed from the twelve published monthly figures, each of which represents the sum of the employment reported for that month by all establishments in the industry.

[2] Includes data for Shingle mills (industry 2423).

FOR INDUSTRY GROUPS AND FOR INDUSTRIES: 1947—Continued

Establishments reporting employment by month													
Number of employees													No.
Average for the year[1]	January	February	March	April	May	June	July	August	September	October	November	December	
31,315	32,773	33,630	33,832	33,030	31,751	30,860	29,368	29,005	29,222	30,552	30,995	30,545	395
15,553	16,902	17,717	17,700	17,102	15,991	15,149	13,869	13,381	13,626	14,836	15,342	14,898	3951
6,279	6,303	6,335	6,453	6,378	6,371	6,319	6,143	6,221	6,167	6,270	6,225	6,119	3952
4,442	4,431	4,433	4,482	4,460	4,411	4,388	4,379	4,389	4,421	4,473	4,476	4,565	3953
1,360	1,380	1,391	1,427	1,427	1,388	1,378	1,299	1,330	1,363	1,327	1,314	1,299	3954
3,681	3,757	3,754	3,770	3,663	3,590	3,626	3,678	3,684	3,645	3,646	3,638	3,664	3955
61,761	63,957	63,626	63,080	59,006	55,155	54,162	55,316	59,541	63,323	68,208	68,464	66,583	396
23,718	23,375	23,368	23,304	21,446	19,446	19,436	20,051	23,043	25,805	29,315	29,160	26,617	3961
6,102	6,817	6,678	6,520	5,737	5,414	5,168	5,348	5,727	5,892	6,625	6,531	6,543	3962
9,603	10,367	10,308	10,089	9,678	8,990	8,951	8,933	9,131	9,287	9,514	9,718	10,080	3963
22,338	23,398	23,272	23,167	22,145	21,305	20,607	20,984	21,640	22,339	22,754	23,055	23,343	3964
57,881	59,754	59,388	59,362	58,286	56,698	54,247	53,224	56,287	57,115	59,918	60,849	59,814	3971
151,415	151,602	151,312	152,445	151,198	148,097	146,278	144,500	147,900	152,025	156,320	157,956	155,815	399
17,672	19,209	19,196	18,885	18,402	17,721	16,763	16,041	16,216	16,814	17,391	17,744	17,480	3981
2,485	2,889	2,869	2,674	2,506	2,492	2,362	2,072	2,248	2,320	2,424	2,454	2,490	3982
7,350	8,121	7,913	7,812	7,285	7,220	7,019	6,647	6,910	7,065	7,273	7,406	7,512	3983
2,405	2,667	2,625	2,588	2,477	2,295	2,214	2,152	2,212	2,385	2,469	2,427	2,356	3984
3,251	3,376	3,263	3,263	3,378	3,521	3,388	2,788	2,955	3,099	3,316	3,306	3,283	3985
6,995	7,635	7,668	7,552	7,328	6,995	6,563	6,278	6,416	6,610	6,698	7,025	7,117	3986
3,731	3,340	3,418	3,571	3,278	2,996	3,079	3,264	3,717	4,118	4,542	4,808	4,564	3987
21,984	20,799	21,099	21,711	22,162	20,831	21,475	21,937	22,319	22,623	22,642	22,822	23,180	3988
4,065	4,859	4,628	4,611	4,407	4,075	3,859	3,729	3,576	3,749	3,773	3,787	3,692	3991
6,602	5,705	5,484	5,675	6,333	6,696	6,799	6,907	7,139	7,277	7,389	7,098	6,700	3992
25,692	24,548	24,727	25,200	25,152	25,311	25,544	25,376	25,742	26,270	26,823	26,787	26,233	3993
1,170	1,103	1,069	1,049	1,000	1,015	1,044	1,035	1,115	1,252	1,407	1,475	1,374	3994
3,319	3,136	3,153	3,262	3,075	3,029	3,037	3,013	3,335	3,455	3,701	3,804	3,821	3995
3,140	3,496	3,472	3,353	3,267	3,094	2,856	2,698	2,830	3,083	3,216	3,205	3,117	3996
2,739	2,831	2,676	2,765	2,777	2,720	2,741	2,717	2,732	2,702	2,759	2,711	2,716	3997
1,145	1,184	1,192	1,208	1,156	1,136	1,120	1,092	1,128	1,090	1,158	1,147	1,111	3998
10,453	9,592	9,805	10,057	10,189	10,324	10,466	10,537	10,537	10,624	10,892	11,091	11,330	1951
8,050	8,008	7,997	7,985	8,038	8,072	8,035	7,997	7,969	7,964	8,120	8,155	8,256	1961
19,167	19,104	19,058	19,224	18,988	18,554	17,914	18,220	18,804	19,525	20,327	20,704	19,483	3999